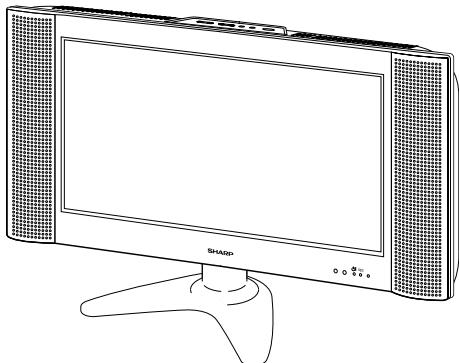


**SHARP****SERVICE MANUAL**

S02R9LC22SV2E

**LCD COLOUR TELEVISION****MODEL LC-22SV2E**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

**CONTENTS**

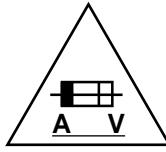
	Page
• IMPORTANT SERVICE SAFETY PRECAUTION .....	2
• SPECIFICATIONS .....	4
• OPERATION MANUAL .....	5
• DIMENSIONS .....	7
• REMOVING OF MAJOR PARTS .....	8
• ADJUSTING PROCEDURE OF EACH SECTION .....	11
• TROUBLE SHOOTING TABLE .....	20
• CHASSIS LAYOUT .....	26
• BLOCK DIAGRAM .....	28
• OVERALL WIRING DIAGRAM .....	30
• DESCRIPTION OF SCHEMATIC DIAGRAM .....	32
• SCHEMATIC DIAGRAM .....	33
• PRINTED WIRING BOARD ASSEMBLIES .....	56
• REPLACEMENT PARTS LIST .....	67
• PACKING OF THE SET .....	83

# IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

## WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.



**CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F3701 (T1.6AL, 250V), F3702 (T1.6AL, 250V), F6551 (T1.25AL, 250V), F6552 (T1.25AL, 250V), F6553 (T1.25AL, 250V) AND F6554 (T1.25AL, 250V) FUSE.**

## BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

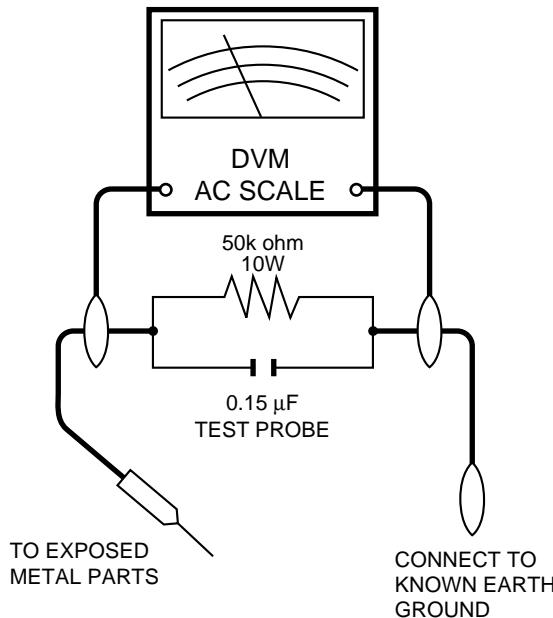
- Plug the AC cord directly into a 110~240 volt AC outlet, and connect the DC power cable into the receiver's DC jack. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 50k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth

ground, such as electrical conduit or electrical ground connected to an earth ground.

- Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity or measure the AC voltage drop across the resistor.
- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 0.75V peak (this corresponds to 0.5 milliamp. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



## SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics.

These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠"

and shaded areas in the **Replacement Parts Lists** and **Schematic Diagrams**.

For continued protection, replacement parts must be identical to those used in the original circuit.

The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

# Precautions for using lead-free solder

## 1 Employing lead-free solder

"Inverter PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder. Example:

**LFa**

**Sn-Ag-Cu**

Indicates lead-free solder of tin, silver and copper.

## 2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service ranch in your area.

## 3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Becareful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing

Part No,	★	Description	Code
ZHNDAi123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDAi126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDAi12801KE	J	φ1.0mm 1kg(1roll)	BM

# SPECIFICATIONS

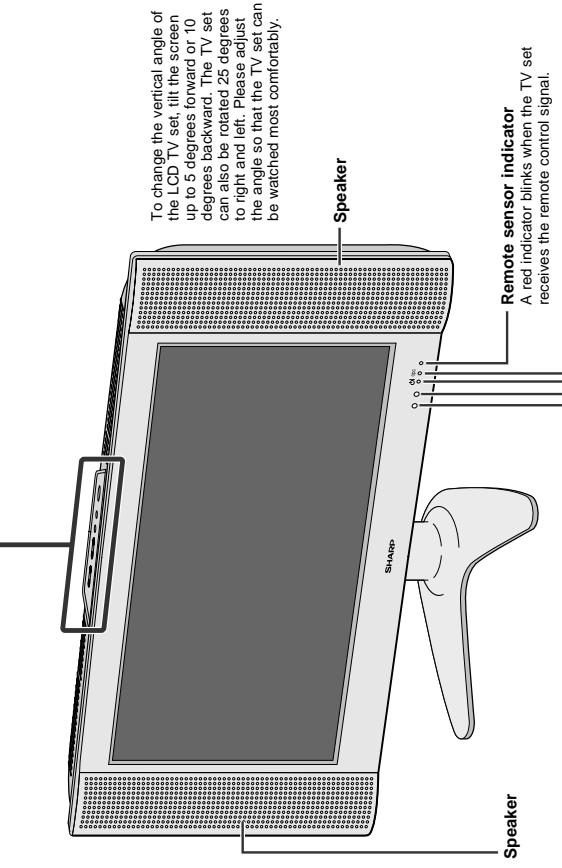
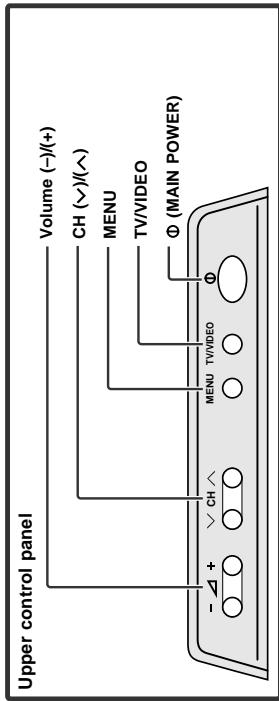
Item		22" LCD COLOUR TV, Model: LC-22SV2E
LCD panel		22" Advanced Super View & BLACK TFT LCD
Number of dots		1,229,760 dots (854 × 480 × 3 dots)
Video colour system		PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Function	TV-Standard (CCIR)	B/G, I, D/K, L
	Receiving Channel	VHF/UHF E2-E69 ch, I21-I69 ch, IR A-IR Jch, F2-F10 ch
	CATV	~ Hyper Band
	TV-Tuning System	Auto preset 200 ch.
STEREO/BILINGUAL		NICAM, IGR
Brightness		430 cd/m <sup>2</sup>
Lamp life		60,000 hours
Viewing angles		H: 170° V: 170°
Audio amplifier		2.5 W × 2
Speakers		5 cm ø 2 pcs
Terminals	AV-IN 1	SCART (Av in, RGB in, TV out)
	AV-IN 2	S-VIDEO, VIDEO, AUDIO
	OUT	AUDIO
	Antenna	75 Ω Din Type
	Headphones	3.5 mm ø jack (Rear)
OSD language		English/German/French/Spanish/Italian/Swedish/Dutch
Power requirement		DC 13 V, AC 110 V – 240 V, (50/60 Hz)
Power Consumption		62 W (1.0 W at Standby) (Method IEC60107) : AC 230 V (with AC Adapter) 53 W (Method IEC60107) : DC 13 V
Weight		9.3 kg w/o accessories
Accessories		Operation Manual, Remote Control, Batteries (× 2), AC adapter, AC cord, Cable clamps (× 2)

***Specifications are subject to change without prior notice.***

# OPERATION MANUAL

## Part Names of Main Unit

### Controls



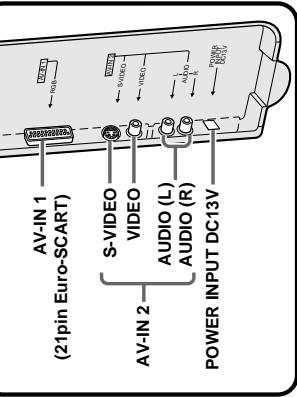
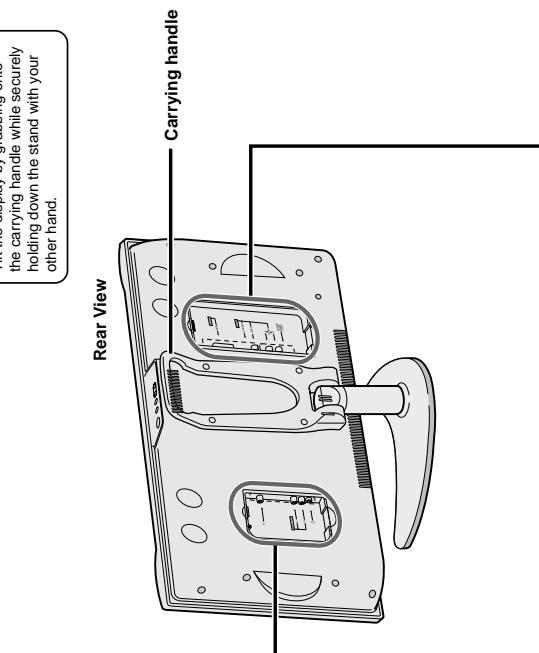
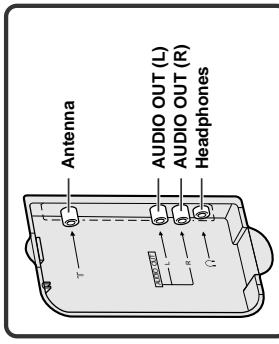
**Remote sensor window**  
A red indicator blinks when the TV set receives the remote control signal.

**OPC (Optical Picture Control) indicator**  
A green indicator lights when "Brightness" is set to "Auto".

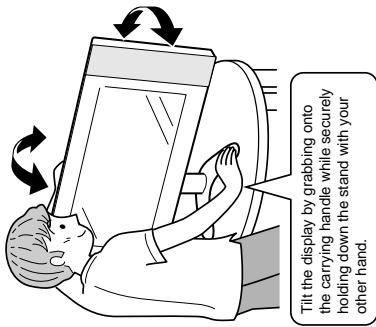
**POWER/STANDBY indicator**  
A green indicator lights when the power is on and a red indicator lights when in the standby mode (the indicator will not light when the main power is off).

**Note:**  
• TV/VIDEO, CH(>/<), Volume (-/+), and MENU on the main unit have the same functions as the same buttons on the remote control.

### Terminals



### How to adjust the angle



Tilt the display by grabbing onto the carrying handle while securely holding down the stand with your other hand.

## Part Names of Remote Control

## Preparation

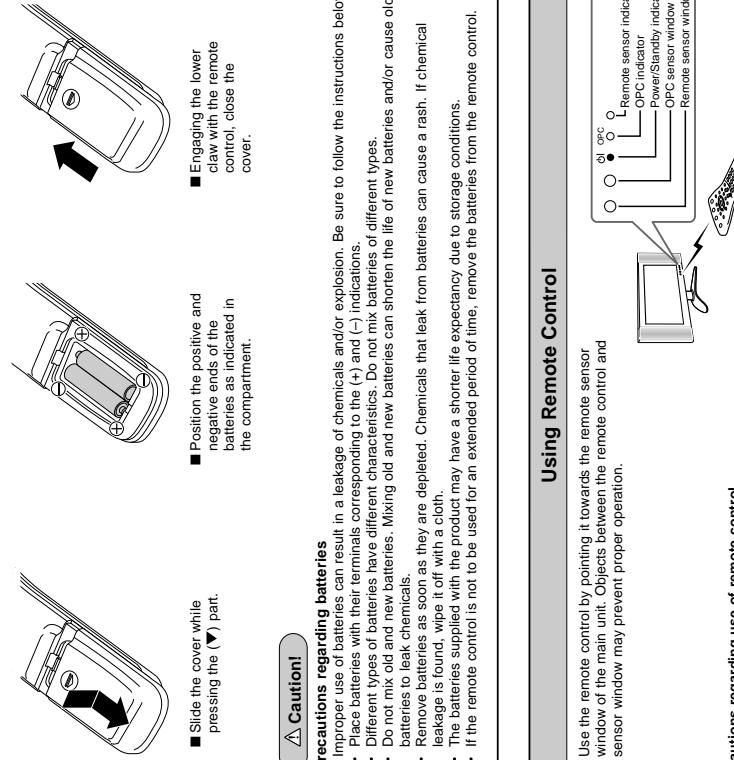
### Installing Batteries in the Remote Control

Before using the LCD TV set for the first time, install the two R-03 ("AAA" size, UM/SUM-4) batteries supplied in the remote control. When the batteries become depleted and the remote control fails to operate, replace the batteries with new R-03 ("AAA" size, UM/SUM-4) batteries.

**1** Open the battery cover.

**2** Insert two R-03 ("AAA" size, UM/SUM-4) batteries.

**3** Replace the battery cover.

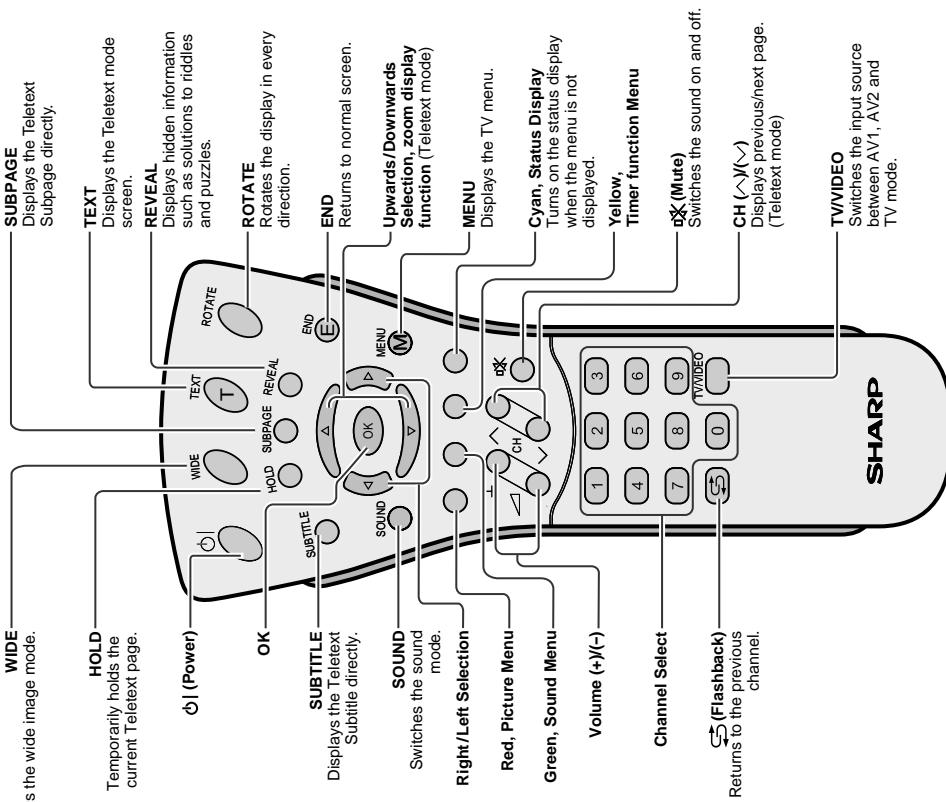


**Caution!**

**Precautions regarding batteries**

- Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.
- Place batteries with their terminals corresponding to the (+) and (-) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe it off with a cloth.
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control is not to be used for an extended period of time, remove the batteries from the remote control.

### Using Remote Control



**WIDE** Selects the wide image mode.

**HOLD** Temporarily holds the current Teletext page.

**OK (Power)** Displays the Teletext Subtitle directly.

**SOUND** Switches the sound mode.

**Right/Left Selection** Red, Picture Menu

**Green, Sound Menu**

**Volume (+/-)**

**Channel Select**

**CH (↔)** Displays previous/next page. (Teletext mode)

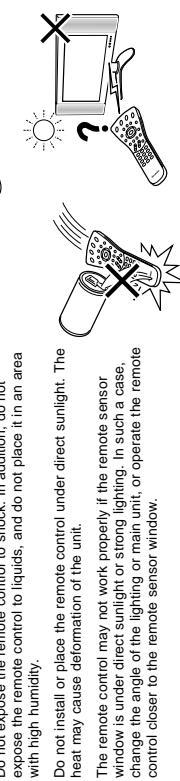
**TV/VIDEO** Switches the input source between AV1, AV2 and TV mode.

**OPC sensor window**

### Using Remote Control

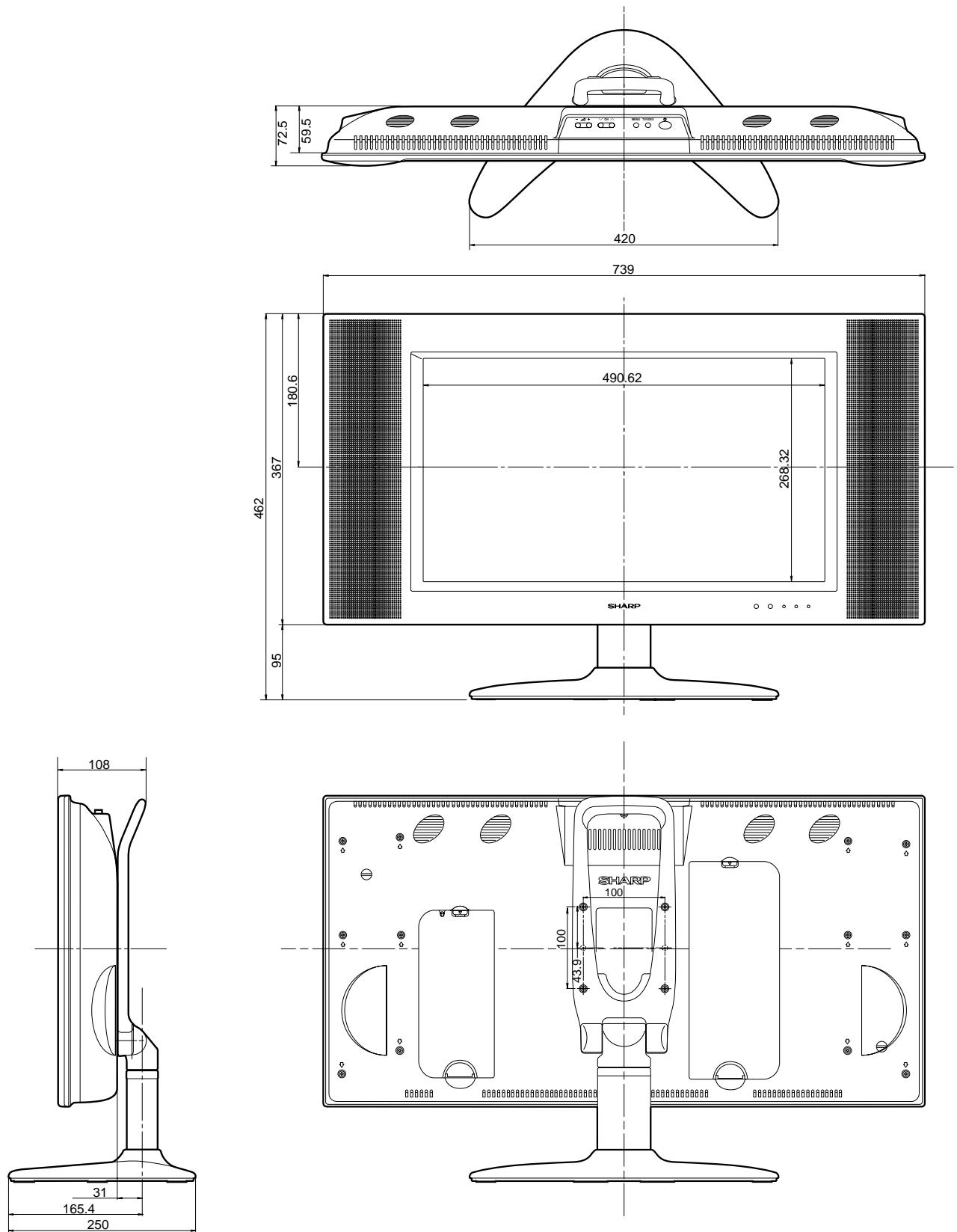
**Cautions regarding use of remote control**

- Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place it in an area with high humidity.
- Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
- The remote control may not work properly if the remote sensor window is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or main unit, or operate the remote control closer to the remote sensor window.



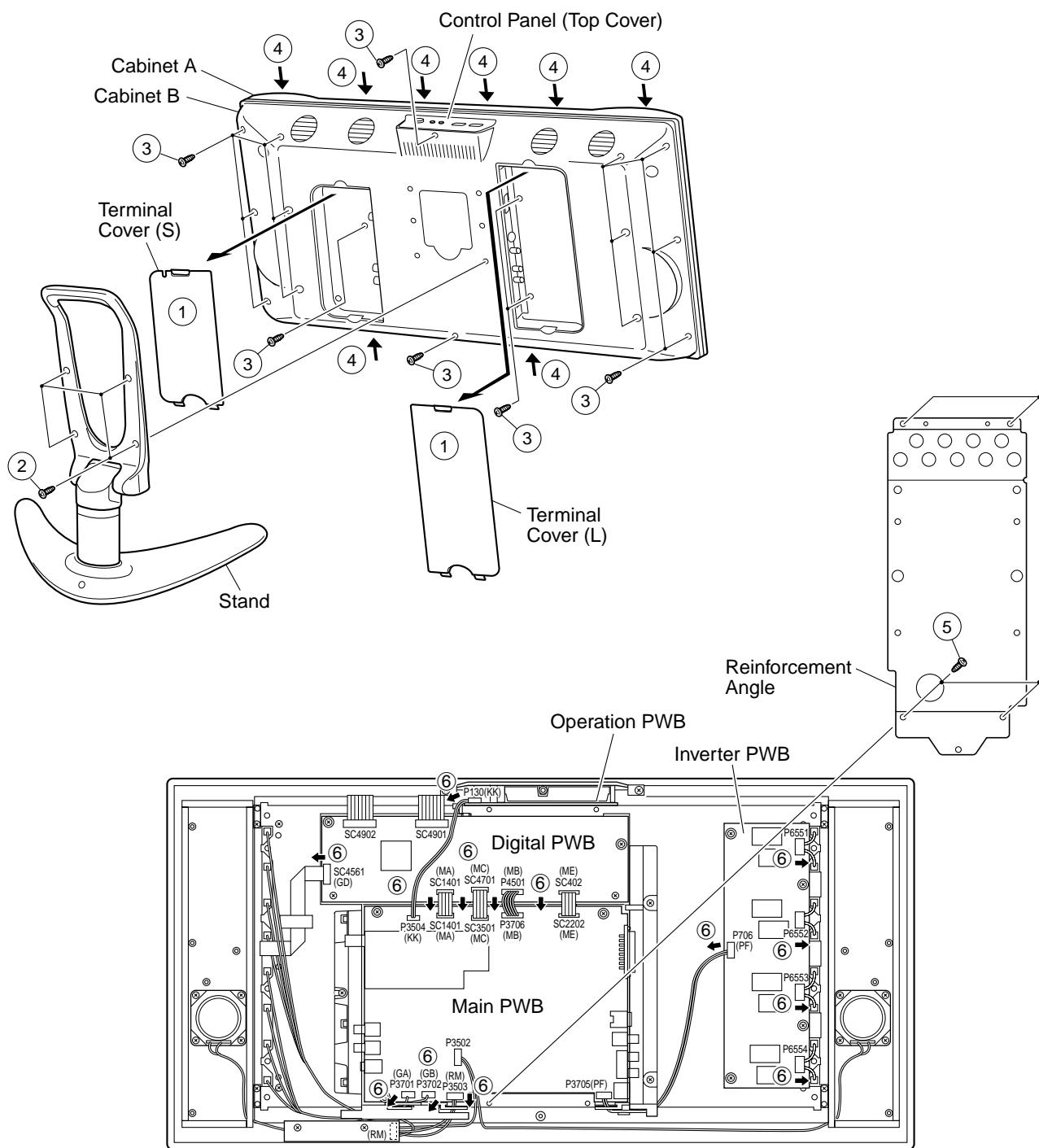
## DIMENSIONS

Unit: mm

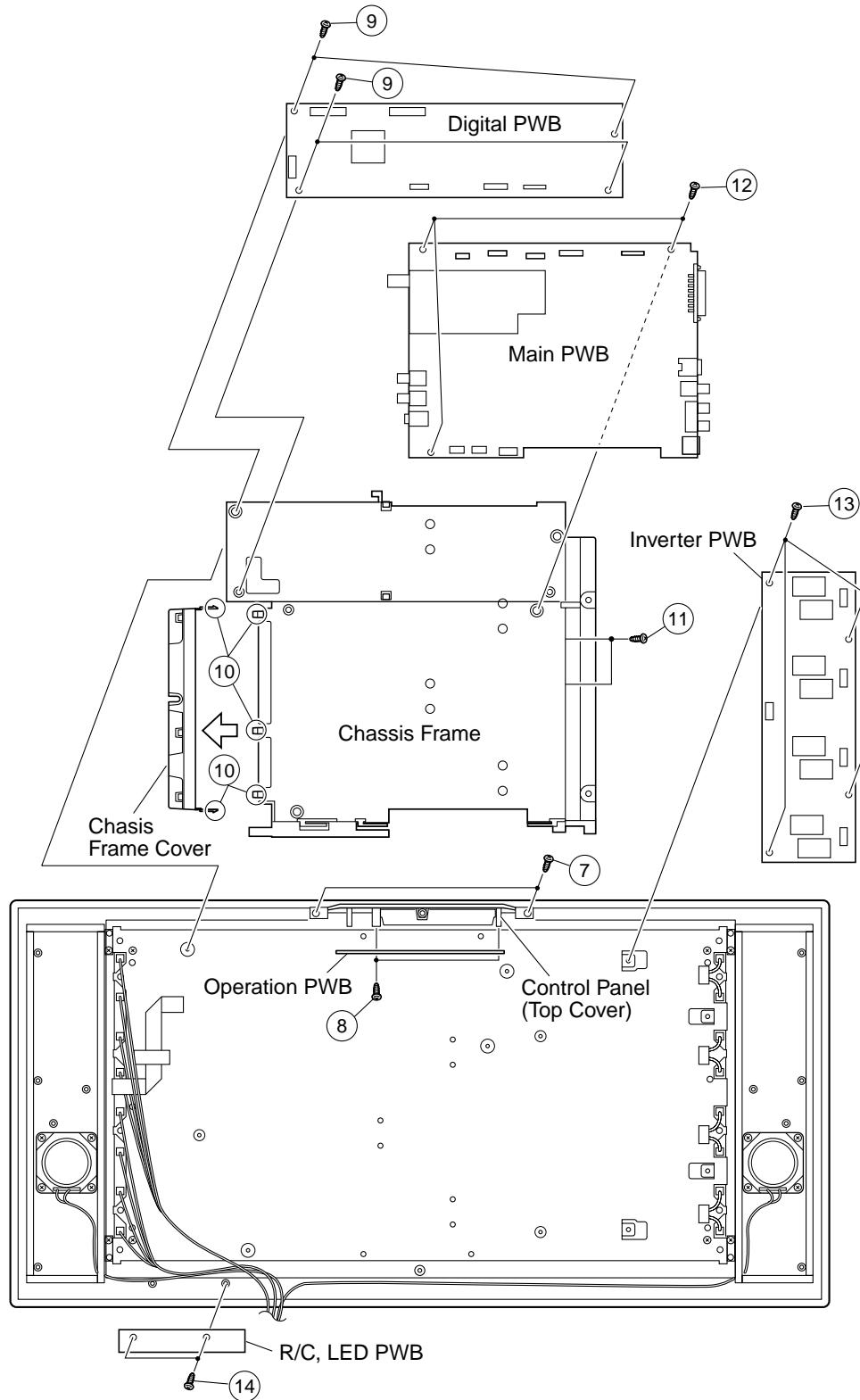


## REMOVING OF MAJOR PARTS

1. Remove the two terminal covers.
2. Remove the table stand fixing screws (4 pcs.).
3. Remove the cabinet B fixing screws (17 pcs.).
4. Remove the cabinet B after opening from the direction of an arrow.
5. Remove the reinforcement angle fixing screws (4 pcs.).
6. Detach the connector from each PWB.

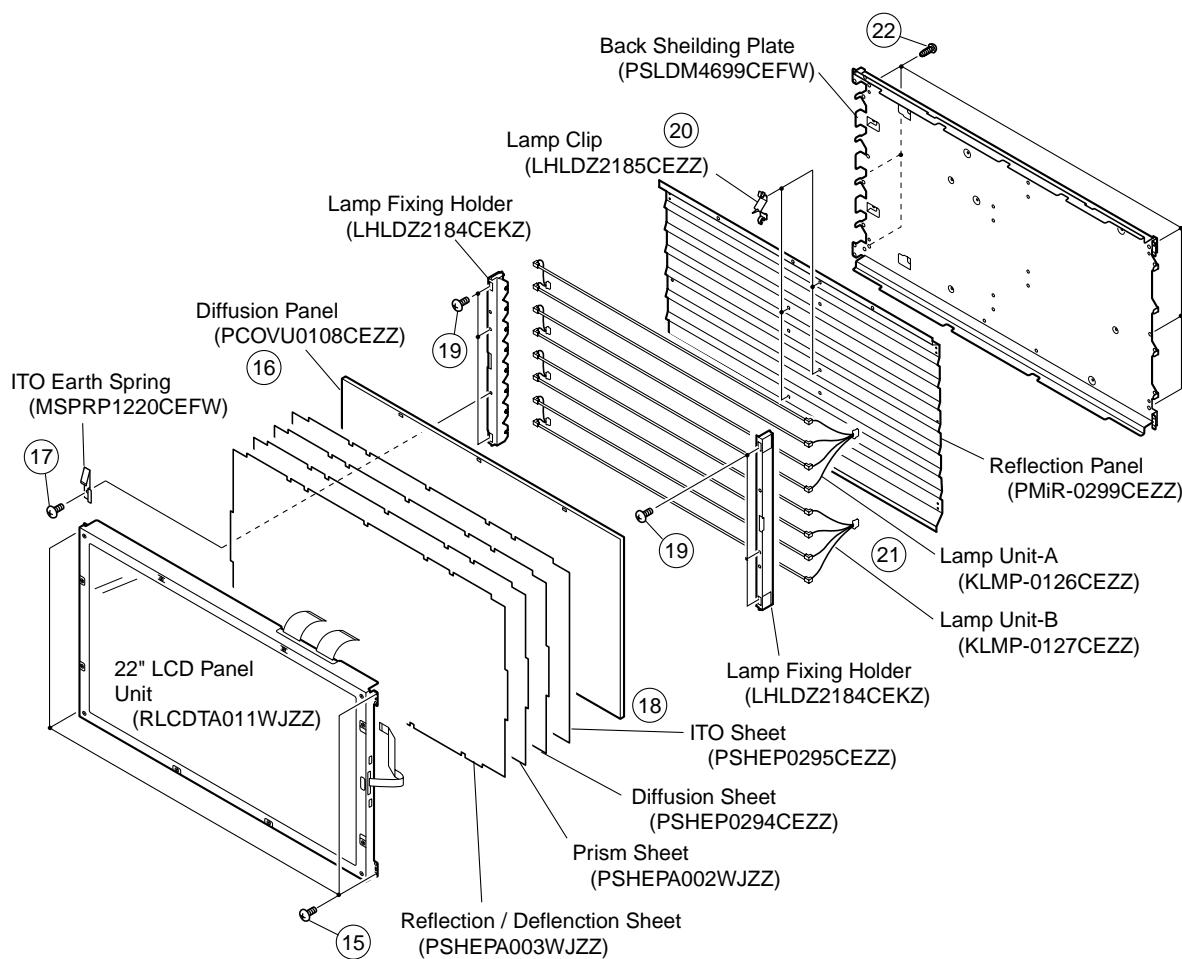


7. Remove the top cover fixing screws (2 pcs.).
8. Remove the control PWB fixing screws (2 pcs.).
9. Remove the digital PWB fixing screws (4 pcs.).
10. Detach the chassis frame cover fixing hooks (5 pcs.).
11. Remove the 21-pin terminal fixings screws (2 pcs.).
12. Remove the analog PWB fixing screws (3 pcs.).
13. Remove the inverter PWB fixing screws (4 pcs.).
14. Remove the R/C, LED PWB fixing screws (2 pcs.).



- Precautions in handling the LCD panels
  - Work in a clean room (with humidities below 50%).
  - Be sure to wear an anti-static armband.
  - Handle the panels on an electroconductive mat.
  - Be careful not to fall, shake and shock the panels.

- Remove the LCD panel unit fixing screws (4 pcs.).
- Remove the reflection/deflection, prism and diffusion sheets.
- Remove the ITO earth spring fixing screw (1 pc.).
- Remove the ITO sheet and diffusion panel.
- Remove the lamp fixing holder fixing screws (6 pcs.).
- Detach the lamp clip (4 pcs.).
- Detach the lamp unit-A/B.
- Remove the reflection panel fixing screws. (6 pcs.).



# ADJUSTING PROCEDURE OF EACH SECTION

The best adjustment is made before shipping. If any position deviation is found or after part replace is performed, adjust as follows.

## Preparation for adjustments

Use the dedicated AC adaptor or stable DC power supply.

AC adaptor: UADP-0241CEPZ

DC power supply: 13V 5.4A

## 1. Entering the adjustment processing mode

- A “POWER” key is made on with pushing an “TV/VIDEO” and “MENU” keys at the same time.(K of the inspection process mode is displayed by the upper left of the image plane.) → Next, “CH (▽)” and “VOL (–)” keys are pushed at the same time.(It becomes the image plane of the adjustment process mode.).....When it is canceled, it is made to turn it off.(Even off in the “MAIN POWER” key, off with R/C are good.)

## 2. Key operation in the adjustment process mode

- The receiving channel UP/DOWN is performed with the “CH (△)/(▽)” keys.  
One push ... The UP/DOWN tuning is performed per channel.  
Continuous push ... The UP/DOWN search is performed until a next receivable station is found.
- Various adjustments  
The adjustment is performed for each item by the “MENU”, “Menu cursor”, “CH (△)/(▽)” or “VOL (+)/(-)” keys (LCD TV set and remote control).
- Adjustment item is chosen with the Menu cursor upward/downward keys.
- The adjustment item makes a toggle operation with the “MENU” key input. (Next item)  
If the “MENU” key is input while the bottom item is selected, it moves to the top item on the next page.
- Press the auto preset button on the remote controller in the adjustment process mode, and the top item of the next page will show up regardless of which item appears now.  
Page 1 → Page 2 → ... → Page 23 → Page 1
- Press the manual memory button on the remote controller in the adjustment process mode, and the top item of the same page will show up.
- UP/DOWN of each adjustment vale selected is performed with the VOL (+)/(-) keys input.
- For P16 – 17, the unit enters the register select mode with the VOL (+)/(-) keys input while NTSC/PAL is selected, and the cursor moves to the address 01.
- The cursor moves up or down with the “CH (△)/(▽)” keys and moves left or right with the VOL (+)/(-) keys, and a decision is made with the 12 key.

When the decision is made, the cursor moves to the adjustment value selected, and UP/DOWN of each adjustment value selected by the “VOL (+)/(-)” keys input is performed.

00 ↔ 01 ↔ ... ↔ 79 ↔ 7A ↔ ... ↔ FF ↔ 00 ↔ ...

Decide with the 12 key and return to the address select. Move to the next item with the “MENU” key.

During address select, the cursor movement by the “VOL (+)/(-)” keys input is as follows:

Example: 01 ↔ 02 ↔ 03 ↔ 01 ↔ ...

The cursor movement by the “CH (△)/(▽)” keys input is as follows:

Example: 02 ↔ 05 ↔ ... ↔ F6 ↔ 02 ↔ ...

## 3. Initialization

- 3-1. Connect the pins (81) and (82) of IC2001 (microprocessor) to GND, and turn on the power.
- 3-2. Select the model name to (22SV2E/22SV2K).

## 4. Adjustment

### 4-1. +B (5V) adjustment (R3750 : Main Unit)

- 1) Receive the colour bar signal.
- 2) Adjust the voltage of the positive (+) side of C3724 to  $5.00 \pm 0.02V$ .

Note: Since 5.0V is a reference voltage of all power voltage, adjust it precisely.

### 4-2. +B (13V) adjustment (R4657 : Digital Unit)

- 1) Receive the colour bar signal.
- 2) Connect the digital voltmeter to TP4751, and adjust to  $13.00 \pm 0.05V$ .

Note: Since 13.00V is a reference voltage of all power voltage, adjust it precisely.

### 4-3. Counter-bias adjustment

Please perform this adjustment to each "50Hz" and "60Hz".

- 1) Enter the process adjustment mode.
- 2) Select the "14" (Dot reversal flicker pattern) of "G/A TEST PATTERN" on page 19 of the adjustment process mode.
- 3) Select the "COM BIAS 60"/"COM BIAS 50" on page 2 of the adjustment process mode.
- 4) Adjust the flicker of a screen to be minimum.

### 4-4. TAMP adjustment

- 1) Receive the colour bar signal.
- 2) See if the "Y" reading on page 2 of the adjustment process mode is somewhere following. If not, make the "PAL TAMP" adjustment to get the "Y" reading in the range of "BB" thru "CA".
- 3) If the adjustment of "PAL TAMP" is executed, write its adjustment value to the "SECAM TAMP" manually.

(Screen of the page 2 of the adjustment processing menu OSD)

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
0		2																									
1		▶	C	O	M		B	I	A	S		6	0									5	7				
			C	O	M		B	I	A	S		5	0														
2			P	A	L		T	A	M	P												2	4				
3			S	E	C	A	M		T	A	M	P										2	4				
4			C	U	T	O	F	F														—	5				
5			R	X	1		G	X	1		B	X	1			4	5			4	5		4	5			
6			R	Y	1		G	Y	1		B	Y	1			7	5			7	6		8	6			
7			R	X	2		G	X	2		B	X	2			2	0	1		2	0	1	2	0	1		
8			R	Y	2		G	Y	2		B	Y	2			2	3	0		2	2	5	2	3	0		
9			Y																			C	0				
10			T	A	M	P		H														C	A				
11			T	A	M	P		L														B	B				
12																											
13																											
14																											

Y Data  
(White 75%)

### 4-5. White balance adjustment

- 1) Receive the following signal.

Window pattern signal having left 70% white and right 40% white.

- 2) Adjust the "RY1, GY1, BY1" and "RY2, GY2, BY2" on page 2 of the adjustment process mode to be best condition.

It is about "RY1, GY1, BY1" at 40% gray.

It is about "RY2, GY2, BY2" at 70% gray.

Adjusting value;  $x=0.257$ ,  $y=0.264$  (40% gray)

$x=0.274$ ,  $y=0.284$  (70% gray)

Note: This adjustment must be done after aging for 30 minutes or longer.

## 5. Lamp error detection

### 5-1. Functional description

This LCD colour television has a function (lamp error detection) to be turned OFF automatically for safety when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the followings occur.

- ① The main unit of television is turned OFF 5 seconds after it is turned ON. (The power LED on the front side of TV turns from green to red.)
- ② If the situation ① happens 5 times sequentially, television can not be turned ON. (The power LED remains red.)

### 5-2. Countermeasures

#### 5-2-1. Check when turning OFF the lamp error detection

When television is turned OFF by the lamp error detection mentioned above, it enters the adjustment process with the power LED red. Entering the adjustment process turns OFF the error detection and turns ON TV.

This enables the operation check to detect errors in the lamp or lamp circuit.

Check whether "ERROR NO RESET" on line 7, page 1 of the adjustment process is 1 or more. If it is 1 or more, it indicates the lamp error detection was executed.

#### 5-2-2. Resetting of the lamp error count

After confirming that the lamp or lamp circuit is normal, reset the lamp error count. Select "ERROR NO RESET" on line 5, page 1 of the adjustment process and set the number to 0 using the volume button.

Page 1 of the adjustment process

MODE L	SV2E
NTSC PWM FREQ	1DD
PAL PWM FREQ	1DD
NTSC PWM DUTY	0
PAL PWM DUTY	0
TV GAIN	OFF
ERROR NO RESET	0
PUBLIC MODE	OFF
WL D13 V E R	1 . 0 0

Afterwards, perform the operation check to confirm that the lamp error detection does not function.

## Pin functions of microprocessor IC (IC2001) RH-iXA380WJZZQ

No.	Pin name	Function	No.	Pin name	Function
1	N. C.	Open	51	REQ_OUT	Completion output of external bus mode shift (H;Normal, L;External bus mode)
2	N. C.	Open	52	HPMUTE	Headphone mute output (H;On, L;off)
3	SCL2	I2C bus clock data output	53	SMUTE	Audio mute output (H;On, L;Off)
4	SDA2	I2C bus data output/input	54	TEXT_MODE1	TEXT microprocessor updating
5	VACT	Scaller IC	55	TEXT_MODE0	TEXT microprocessor updating
6	CSYNC	Composite sync Signal	56	PAMUTE	Speaker standby mute output (H;Off, L;On)
7	IREM-1	Remote control signal input	57	VSH IN	Regulator power detect (H;Normal, L;Abnormal)
8	BYTE	GND	58	DEF	Extrnal output audio mute output (H;On, L;Off)
9	CNVSS	GND/FLASH write (3.3V)	59	STB	Microprosessor power supply OFF output
10	TEST_RST	TEXT reset output	60	SRESET	Multiplex reset output (H;Normal, L;Reset)
11	SH_ON	TEXT communication control	61	N. C.	L output fixed
12	RESET	Reset input (H;Normal, L;Reset)	62	HSYNC	OSD horizontal sync signal input
13	XOUT	System clock output	63	POWIN	DC/DC Start-up detect input (H;On, L;Off)
14	VSS	GND	64	VSYNC	OSD vertical sync signal input
15	XIN	System clock input	65	TV/AV1	TV/External select (H;TV, L;External)
16	VDD	Power (3.3V)	66	AV/AV2	AV1/AV2 select (H;AV2, L;AV1)
17	OSCIN	OSD frequency input	67	EXT	External control change
18	OSCOUT	OSD frequency output	68	I2/UA	I2C/UART change
19	PSWIN	Main power input (H;OFF, L;On)	69	SW_SYNC	Synchronous change control
20	VSYNC	Scaller	70	VACT_CONT	For scaller IC
21	BLK	OSD blank output	71	PMUTE	Video mute output (H;On, L;Off)
22	N. C.		72	TVPOW	TV power control (H;On, L;Off)
23	DAC1CS	DAC1 chip select	73	RGBCON	SCART RGB detect
24	DAC2CS	DAC2 chip select	74	RC_LED	R/C receive LED output
25	SCL1	I2C bus clock putput	75	OPC_LED	Auto save LED output (H;On, L;Off)
26	SDA2	I2C bus data in/output	76	PRT_LED	Slave IC error detect output (FLASH)
27	A_DA	Autowide	77	MP_CS	G/A chip select
28	SCK	Scaller clock output	78	MP_DA	G/A data output
29	SSI	Scaller data input	79	MP_CLK	G/A clock output
30	SSO	Scaller data output	80	DDC_RESET	Digital decoder reset (H;Normal, L;Reset)
31	N. C.	L output fixed	81	KEY3	Key input 3
32	R	OSD R signal output	82	KEY4	Key input 4
33	G	OSD G signal output	83	PANEL_POW	Panel power control (H;On, L;Off)
34	B	OSD B signal output	84	TEXT_H	TEXT/SCART RGB change (H;TEXT, L;SCART)
35	TEXT_OUT	TEXT data output/FLASH write	85	TUNERMODE1	System change
36	TEXT_IN	TEXT data input/FLASH write	86	TUNERMODE2	System change
37	SCLK	FLASH write	87	N. C.	L output fixed
38	BUSY	FLASH write	88	SSW	S terminal insert detect (H;Not connect, L;Connect)
39	A_ENA	Autowide	89	AFT	AFT voltage input
40	N. C.	L output fixed	90	N. C.	L output fixed
41	MREADY/EPM	External bus mode shift input/FLASH write (H;Normal, L;External bus mode shift demand)	91	KEY1	Key input 1
42	L_ERR	Lamp error detect input (H;Error, L;Normal)	92	KEY2	Key input 2
43	N. C.	L output fixed	93	SLOW_SW	Slow switch detect input
44	SSB	For scaller IC	94	OPC	Auto save sensor level input
45	SRDYB	For scaller IC	95	N. C.	Open
46	CE	FLASH write	96	N. C.	Open
47	CK	For autowide	97	N. C.	Pull up
48	DA	For autowide	98	TVSETB	GND
49	PD	For autowide	99	VCCE	Power(5V)
50	VSH_OUT	Regulator control output (H;On, L;Off)	100	N. C	Pull-up

## Adjustment process mode menus at a glance

Page	Item	Initial setting	Function	Adjust/modify
1	MODEL	SV2E	Model name	
	NTSC PWM FREQ	1DD	Dimmer frequency setting	
	PAL PWM FREQ	1DD	Dimmer frequency setting	
	NTSC PWM DUTY	0	Dimmer duty setting	
	PAL PWM DUTY	0	Dimmer duty setting	
	TV GAIN	OFF	Audio gain setting in TV mode	
	ERROR NO RESET	0	Lamp error count & reset	
	PUBLIC MODE	OFF	Public mode	
2	COM BIAS 60	59	Counter bias adjustment (60Hz)	
	COM BIAS 50	39	Counter bias adjustment (50Hz)	
	PAL TAMP	21	TAMP adustment	
	SECAM TAMP	21	TAMP adustment	
	CUTOFF RX1, GX1, BX1	45	cutoff adjustment	
	CUTOFF RY1, GY1, BY1	RY1:75 GY1:76 BY1:85	cutoff adjustment	
	CUTOFF RX2, GX2, BX2	201	cutoff adjustment	
	CUTOFF RY2, GY2, BY2	RY2:230 GY2:225 BY2:230	cutoff adjustment	
	Y	00h	Data read value at TAMP adjustment	
	TAMP H	CA	Y upper limit setting at TAMP adjustment	
3	TAMP L	BB	Y lower limit setting at TAMP adjustment	
	TV PAL CONT	48	Contrast setting (TV PAL)	
	TV SECAM CONT	48	Contrast setting (TV SECAM)	
	AV NTSC CONTRAST	45	Contrast setting (external NTSC)	
	AV PAL CONTRAST	45	Contrast setting (external PAL)	
	AV SECAM CONTRAST	45	Contrast setting (external SECAM)	
	AV PAL-M CONTRAST	45	Contrast setting (external PAL-M)	
	AV PAL-N CONTRAST	45	Contrast setting (external PAL-N)	
	AV PAL60 CONTRAST	45	Contrast setting (external PAL-60)	
	V SCROLL 60		Picture size	It changes with picture size.
4	V SCROLL 50		Picture size	It changes with picture size.
	H SCROLL 60		Picture size	It changes with picture size.
	H SCROLL 50		Picture size	It changes with picture size.
	TV GEQ BAND1	1	Equalizer setting 1(TV)	
	TV GEQ BAND2	-1.5	Equalizer setting 2(TV)	
	TV GEQ BAND3	0.5	Equalizer setting 3(TV)	
	TV GEQ BAND4	0.5	Equalizer setting 4(TV)	
	TV GEQ BAND5	1	Equalizer setting 5(TV)	
	EXT GEQ BAND1	1	Equalizer setting 1(external input)	
	EXT GEQ BAND2	-1.5	Equalizer setting 2(external input)	
5	EXT GEQ BAND3	0.5	Equalizer setting 3(external input)	
	EXT GEQ BAND4	0.5	Equalizer setting 4(external input)	
	EXT GEQ BAND5	1	Equalizer setting 5(external input)	
	AVC	4SEC	AVC setting	
	CARRIER MUTE	OFF	Audio output setting out of sync with TV	
	IGR THR	12D	IGR thresh level	
	MSP DATA	0	Audio IC MSP data write & read	
	MSP DATA	WAIT	Write & read execution	
	PRESCALE FM/AM-M	17	Pre-scale setting (M)	
	PRESCALE FM/AM-B	17	Pre-scale setting (B)	
6	PRESCALE FM/AM-D	17	Pre-scale setting (D)	
	PRESCALE FM/AM-I	17	Pre-scale setting (I)	
	PRESCALE FM/AM-L	20	Pre-scale setting (L)	
	PRESCALE NICAM	40	Pre-scale setting (NICAM)	
	PRESCALE SCART	15	Pre-scale setting (external input)	
	FSP TEST	OFF	Audio test (FS mute ON/OFF)	
	0018H	1D		
	ONTA	1		
6	I2C DATA	0	I2C bus control IC data write & read	
	I2C DATA	WAIT	Write & read execution	
	CBW	1	Chroma band pass setting	
	NOSEL	3	Comb filter setting	
	DDR	1	Comb filter setting	
	HDG	3	Comb filter setting	

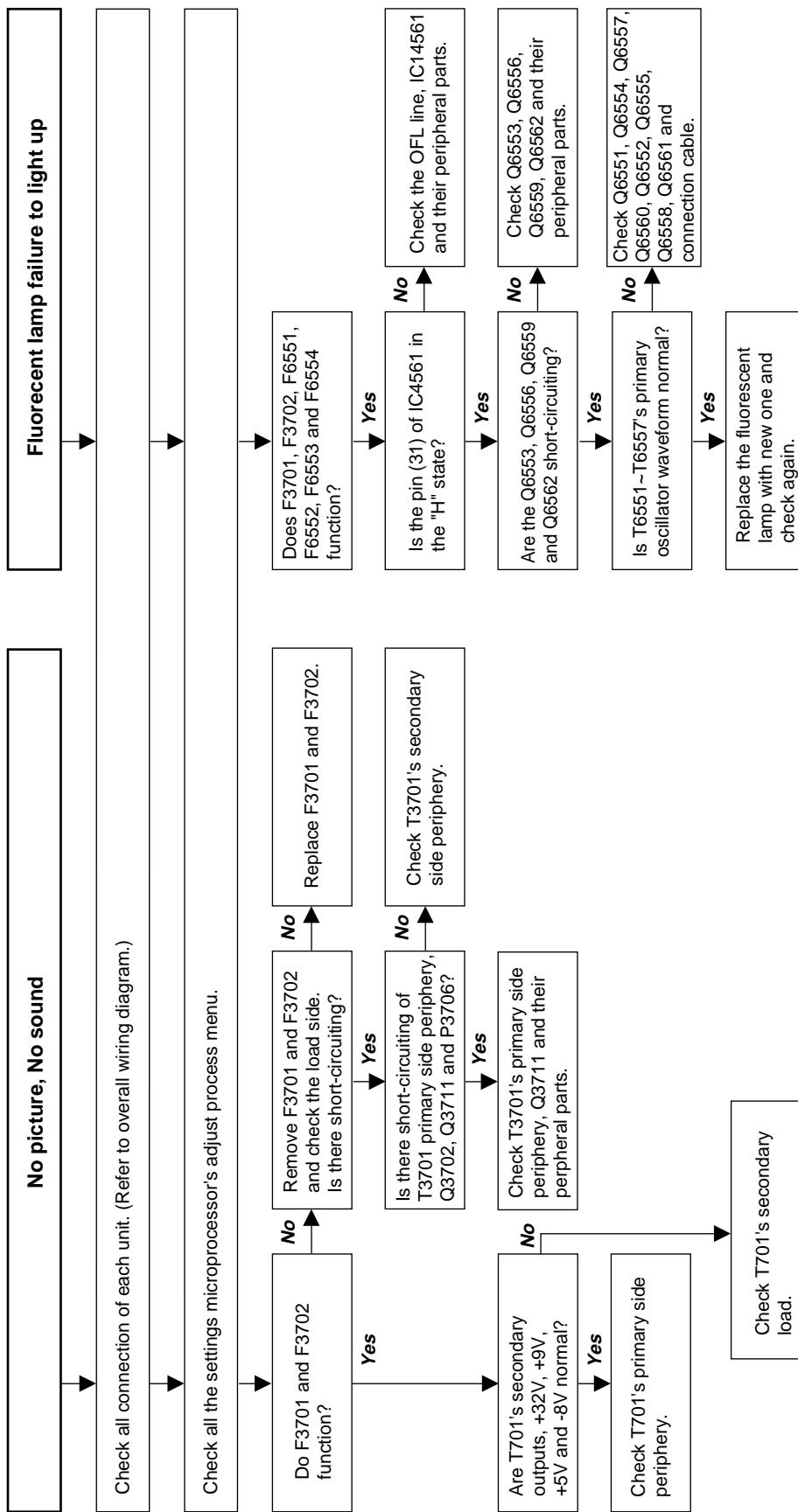
Page	Item	Initial setting	Function	Adjust/modify
6	VDG	0	Comb filter setting	
	VPK	0	Comb filter setting	
	KILVL 08	8	Color killer level setting	
	KILHY 05	5	Color killer hysteresis setting	
	VSYNC DELAY	7	Vsync delay control setting	
	DVC0	-720	Crystal oscillator center frequency adjustment	
	AUTO LCK	400	Crystal oscillator line-locked mode setting	
7	VPC DATA	0	Video IC VPC data write & read	
	VPC DATA	WAIT	Write & read execution	
	TEST PATTERN	0	VPC test pattern select	
	AUTO LDLY	0	Y/C phase setting	
	DVD NTSC CR	18	Color density setting(component)	
	DVD NTSC CB	16	Color density setting(component)	
	DVD NTSC TINT	0	Color tone setting(component)	
	DVD NTSC BRIGHTNESS	71	Brightness setting(component)	
	DVD NTSC CONTRAST	25	Video setting(component)	
	DVD NTSC P FILTER	0	Peaking filter setting(component)	
	DVD NTSC H-PEAKING	3	Picture quality setting(component)	
	DVD NTSC BRIGHT2	8	Brightness setting 2(component)	
8	DVD PAL CR	23	Color density setting(component)	
	DVD PAL CB	19	Color density setting(component)	
	DVD PAL TINT	0	Color tone setting(component)	
	DVD PAL BRIGHTNESS	71	Brightness setting(component)	
	DVD PAL CONTRAST	25	Video setting(component)	
	DVD PAL P FILTER	0	Peaking filter setting(component)	
	DVD PAL H-PEAKING	3	Picture quality setting(component)	
9	DVD PAL BRIGHT2	8	Brightness setting 2(component)	
	DVD PAL CONTRAST2	45	Video setting 2(component)	
	N358 AV COLOR	1800	Color density setting(composite,S-video)	
	N358 AV TINT	70	Color tone setting(composite,S-video)	
	N358 BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
	N358 PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	N358 AV H-PEAKING	3	Picture quality setting(composite,S-video)	
10	N358 AVO START	145	Horizontal position setting	
	N358 SFIF	8	Horizontal position setting	
	N358 SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	N358 AV LDLY	0	Y/C phase setting(composite,S-video)	
	N443 AV COLOR	1800	Color density setting(composite,S-video)	
	N443 AV TINT	70	Color tone setting(composite,S-video)	
	N443 BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
11	N443 PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	N443 AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	N443 AVO START	145	Horizontal position setting	
	N443 SFIF	8	Horizontal position setting	
	N443 SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	N443 AV LDLY	-2	Y/C phase setting(composite,S-video)	
	PAL TV COLOR	1750	Color density setting(TV)	
	PAL AV COLOR	1800	Color density setting(composite,S-video)	
	PAL TV TINT	70	Color tone setting(TV)	
	PAL AV TINT	70	Color tone setting(composite,S-video)	
	PAL BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
12	PAL PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	PAL TV H-PEAKING	3	Picture quality setting(TV)	
	PAL AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	PAL AVO START	145	Horizontal position setting	
	PAL SFIF	13	Horizontal position setting	
	PAL SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	PAL TV LDLY	0	Y/C phase setting(TV)	
12	PAL AV LDLY	-2	Y/C phase setting(composite,S-video)	
	SECAM TV COLOR	1750	Color density setting(TV)	
	SECAM AV COLOR	1800	Color density setting(composite,S-video)	
	SECAM TV TINT	70	Color tone setting(TV)	
12	SECAM AV TINT	70	Color tone setting(composite,S-video)	

Page	Item	Initial setting	Function	Adjust/modify
12	SECAM BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
	SECAM PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	SECAM TV H-PEAKING	3	Picture quality setting(TV)	
	SECAM AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	SECAM AVO START	145	Horizontal position setting	
	SECAM SFIF	13	Horizontal position setting	
	SECAM SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	SECAM TV LDLY	-2	Y/C phase setting(TV)	
	SECAM AV LDLY	-2	Y/C phase setting(composite,S-video)	
13	PAL-M AV COLOR	1800	Color density setting(composite,S-video)	
	PAL-M AV TINT	70	Color tone setting(composite,S-video)	
	PAL-M BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
	PAL-M PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	PAL-M AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	PAL-M AVO START	145	Horizontal position setting	
	PAL-M SFIF	8	Horizontal position setting	
	PAL-M SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	PAL-M AV LDLY	-2	Y/C phase setting(composite,S-video)	
14	PAL-N AV COLOR	1800	Color density setting(composite,S-video)	
	PAL-N AV TINT	70	Color tone setting(composite,S-video)	
	PAL-N BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
	PAL-N PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	PAL-N AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	PAL-N AVO START	145	Horizontal position setting	
	PAL-N SFIF	0	Horizontal position setting	
	PAL-N SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	PAL-N AV LDLY	-2	Y/C phase setting(composite,S-video)	
15	PAL60 AV COLOR	1800	Color density setting(composite,S-video)	
	PAL60 AV TINT	70	Color tone setting(composite,S-video)	
	PAL60 BRIGHTNESS	10	Brightness setting(TV,composite,S-video)	
	PAL60 PEAKING FILTER	0	Peaking filter setting(TV,composite,S-video)	
	PAL60 AV H-PEAKING	3	Picture quality setting(composite,S-video)	
	PAL60 AVO START	145	Horizontal position setting	
	PAL60 SFIF	13	Horizontal position setting	
	PAL60 SCINC1	1078(Panorama) 1600(other)	Roundness setting	
	PAL60 AV LDLY	-2	Y/C phase setting(composite,S-video)	
16	AFT UP	2.7		
	AFT DOWN	1.8		
	NTSC 01	0	Initial setting	
	NTSC 02	0	Setting	
	NTSC 03	1	Setting	
	NTSC 04	0	Start pulse position	
	NTSC 05	0	Start pulse position	
	NTSC 06	0	Horizontal display position	
	NTSC 07	0	Vertical display position	
	NTSC 09	10	Panel clock	
	NTSC 0A	0	Upper side mask	
	NTSC 0B	0	Lower side mask	
	NTSC 10	0	Test display	
	NTSC 11	0	Test disp data	
	NTSC 12	80	Flicker disp data	
	NTSC 13	E1	OEM low start	
	NTSC 14	1	OEM low start	
	NTSC 15	0	OEM low end	
	NTSC 16	10	OEM low end	
	NTSC 17	61	SP position	
	NTSC E0	0	Test setting	
	NTSC E1	0	Test setting	
	NTSC F0	7	PWM output	
	NTSC F3	DD	PWM frequency L bit	
	NTSC F4	1	PWM frequency H bit	
	NTSC F5	0	PWM duty L bit	
	NTSC F6	0	PWM duty H bit	

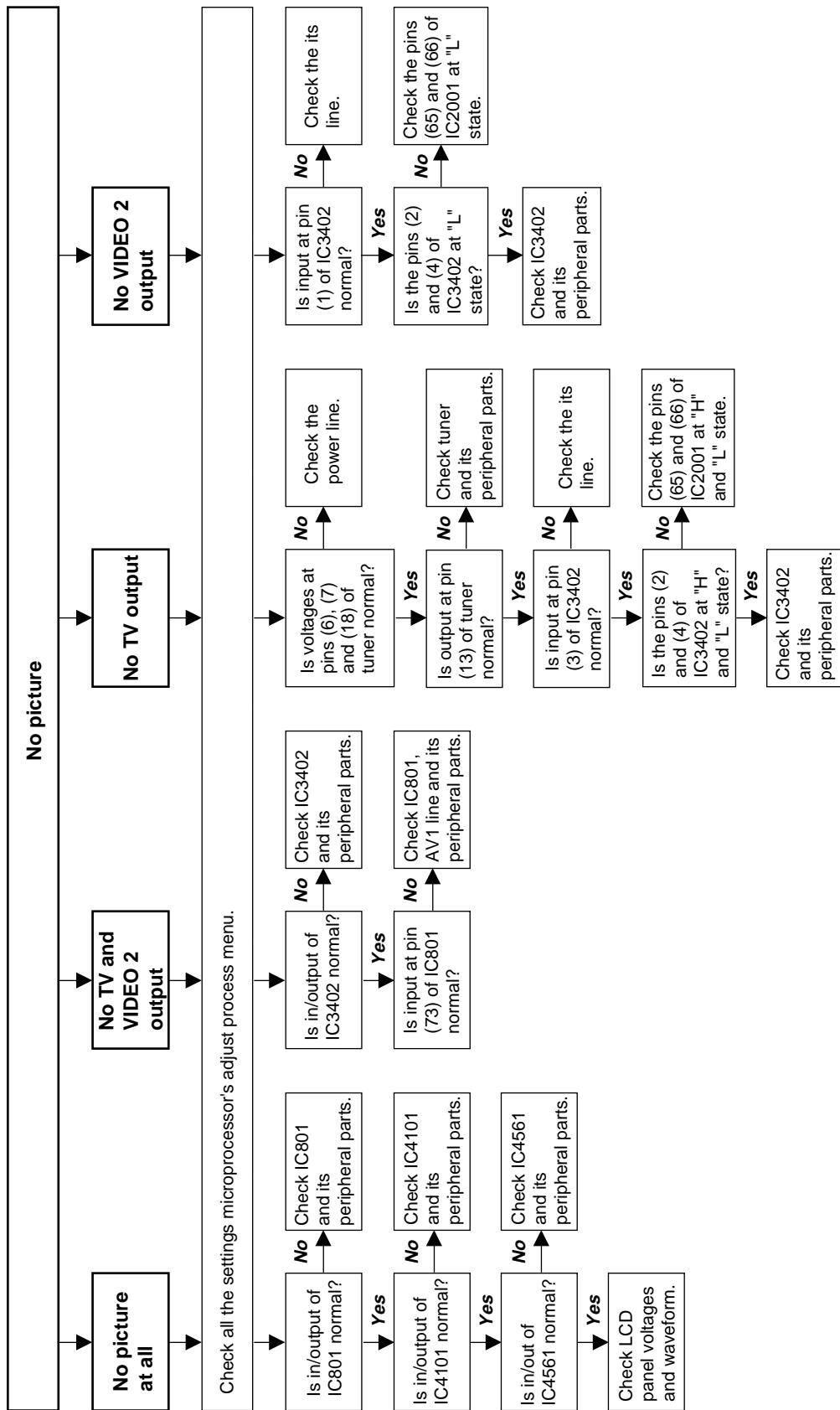
Page	Item	Initial setting	Function	Adjust/modify
17	PAL 01	0	Initial setting	
	PAL 02	0	Setting	
	PAL 03	1	Setting	
	PAL 04	0	Start pulse position	
	PAL 05	0	Start pulse position	
	PAL 06	0	Horizontal display position	
	PAL 07	0	Vertical display position	
	PAL 09	10	Panel clock	
	PAL 0A	0	Upper side mask	
	PAL 0B	0	Lower side mask	
	PAL 10	0	Test display	
	PAL 11	0	Test disp data	
	PAL 12	80	Flicker disp data	
	PAL 13	E1	OEM low start	
	PAL 14	1	OEM low start	
	PAL 15	0	OEM low end	
	PAL 16	10	OEM low end	
	PAL 17	61	SP position	
	PAL E0	0	Test setting	
	PAL E1	0	Test setting	
	PAL F0	7	PWM output	
	PAL F3	DD	PWM frequency L bit	
	PAL F4	1	PWM frequency H bit	
	PAL F5	0	PWM duty L bit	
	PAL F6	0	PWM duty H bit	
18	VL256	70	Gradation power reference voltage	
	REF256	79	Gradation power reference voltage	
	VL224	54	Gradation power reference voltage	
	REF224	113	Gradation power reference voltage	
	VL192	43	Gradation power reference voltage	
	REF192	101	Gradation power reference voltage	
	VL160	46	Gradation power reference voltage	
	REF160	193	Gradation power reference voltage	
	VL128	60	Gradation power reference voltage	
	REF128	192	Gradation power reference voltage	
19	VL96	52	Gradation power reference voltage	
	REF96	228	Gradation power reference voltage	
	VL64	100	Gradation power reference voltage	
	REF64	166	Gradation power reference voltage	
	VL0	110	Gradation power reference voltage	
	REF0	180	Gradation power reference voltage	
	G/A TEST PATTERN1	0	Gradation test pattern display	
	G/A TEST PATTERN2	0	Gradation test pattern display	
	G/A DATA	0	G/A data write & read	
20	G/A DATA	WAIT	Write & read execution	
	LSYNC	625	Sync ID threshold level(TV)	
	HSYNC	655	Sync ID threshold level(TV)	
	AVSYNC	5000	Sync ID threshold level(external input)	
	VPC FP20H		VPC data read value	
	VPC FP21H		VPC data read value	
	VPC FP13H		VPC data read value	
	MSP DEMO200H		MSP data read value	
	L ERROR WAIT	15s	Lamp error detect wait time	
	L ERROR H TIME	1s	Lamp error detect time	
21	LR EXCHANGE	100m	Sound LR exchange time	
	MSP ASS WAIT	1.2S	Automatic sound select time	
	DENKA PORT	OFF	Power off mode setting	
22	DENKA TESTP	0	Power off mode setting	
	DENKA TESTP2	30ms	Power off mode setting	
	TEXT COMM		Text IC control command setting	
	TEXT COMM	WAIT	Write & read execution	
	TEXT REGISTER		Text IC register setting	
	TEXT REGISTER	WAIT	Write & read execution	
	NAME		Text IC networkname setting	
	TEXT HEADER NAME	WAIT	Write & read execution	
	V POSITION	1F	Text vertical position setting	
	H POSITION	B0	Text horizontal position setting	

Page	Item	Initial setting	Function	Adjust/modify
22	EXT CONTROL	OFF	External control select	
	EXT MODE	UART	External mode select	
	UPDATE MODE	NORMAL	Update mode select	
	TEXT RESET	OFF	Text reset	
23	NR DATA	OFF	Noise reduction IC data sending	
	NR 40H	EC	Noise reduction IC data	
	NR 41H	D0	Noise reduction IC data	
	NR 42H	00	Noise reduction IC data	
	NR 43H	80	Noise reduction IC data	
	NR 45H	08	Noise reduction IC data	
	NR 51H	80	Noise reduction IC data	
24	50 OPC LV0	00	Opc save level 0 duty setting	
	50 OPC LV1	8	Opc save level 1 duty setting	
	50 OPC LV2	16	Opc save level 2 duty setting	
	50 OPC LV3	24	Opc save level 3 duty setting	
	50 OPC LV4	32	Opc save level 4 duty setting	
	50 OPC LV5	40	Opc save level 5 duty setting	
	50 OPC LV6	48	Opc save level 6 duty setting	
	50 OPC LV7	56	Opc save level 7 duty setting	
	50 OPC LV8	64	Opc save level 8 duty setting	
	50 OPC LV9	72	Opc save level 9 duty setting	
	50 OPC LV10	80	Opc save level 10 duty setting	
25	60 OPC LV0	0	Opc save level 0 duty setting	
	60 OPC LV1	8	Opc save level 1 duty setting	
	60 OPC LV2	16	Opc save level 2 duty setting	
	60 OPC LV3	24	Opc save level 3 duty setting	
	60 OPC LV4	32	Opc save level 4 duty setting	
	60 OPC LV5	40	Opc save level 5 duty setting	
	60 OPC LV6	48	Opc save level 6 duty setting	
	60 OPC LV7	56	Opc save level 7 duty setting	
	60 OPC LV8	64	Opc save level 8 duty setting	
	60 OPC LV9	72	Opc save level 9 duty setting	
	60 OPC LV10	80	Opc save level 10 duty setting	

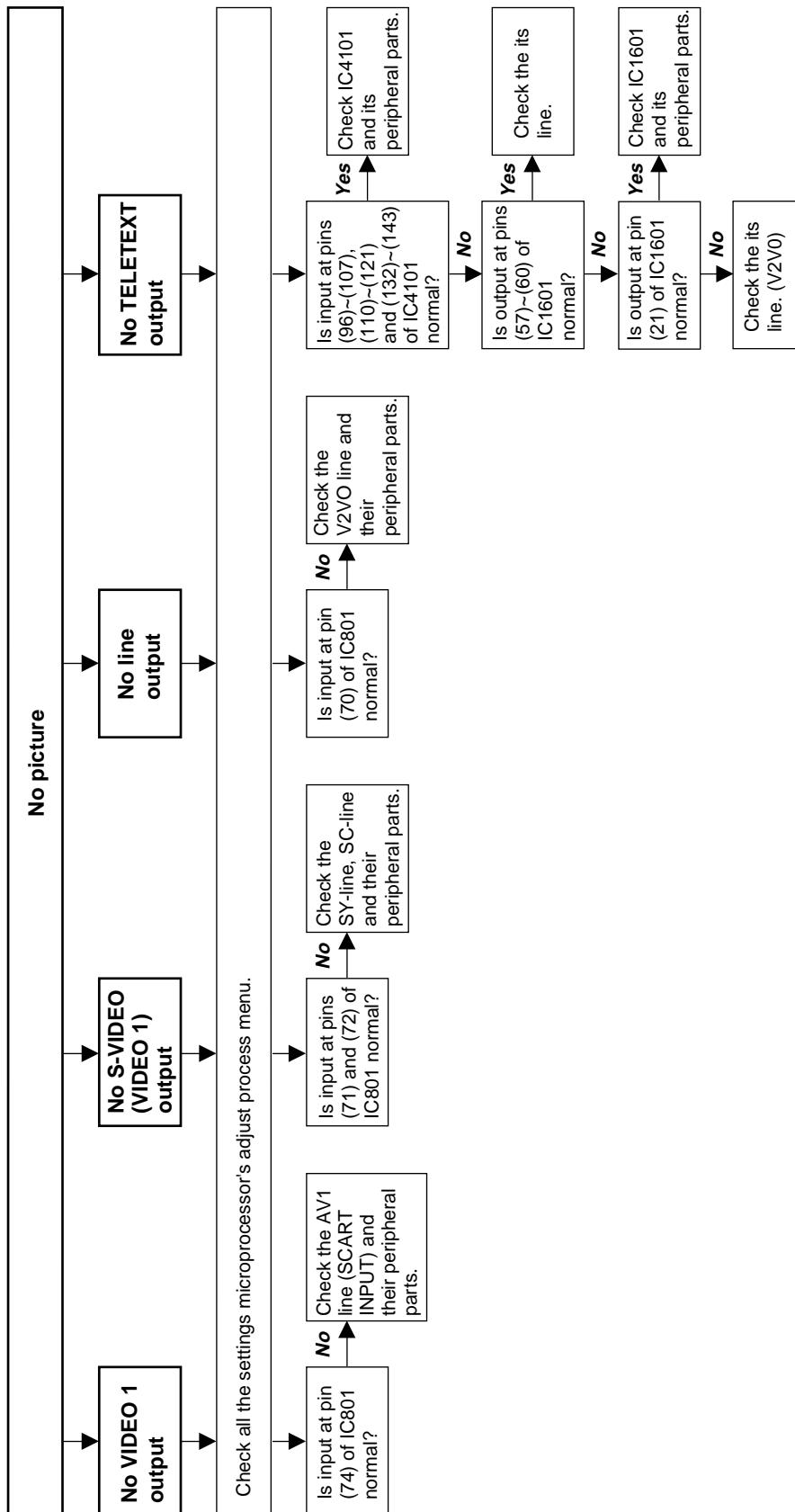
# TROUBLE SHOOTING TABLE



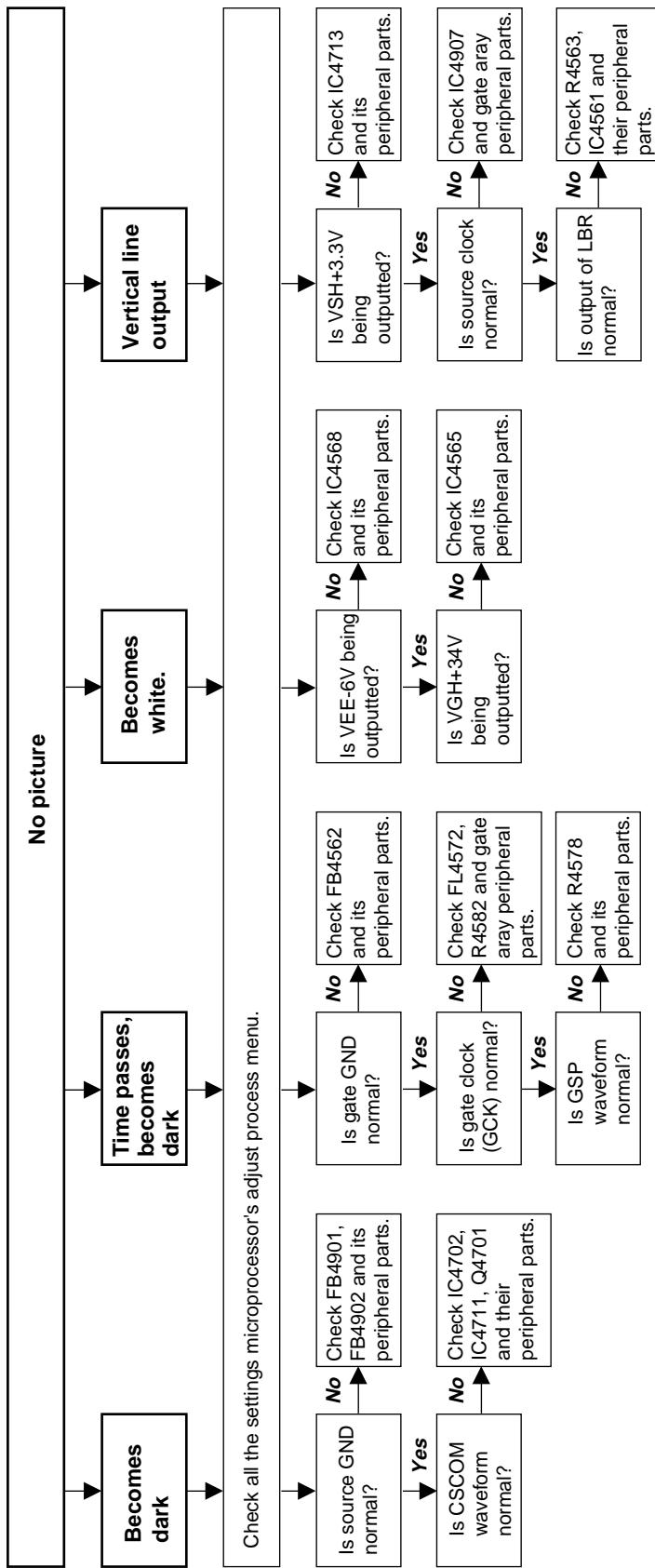
## **TROUBLE SHOOTING TABLE (Continued)**



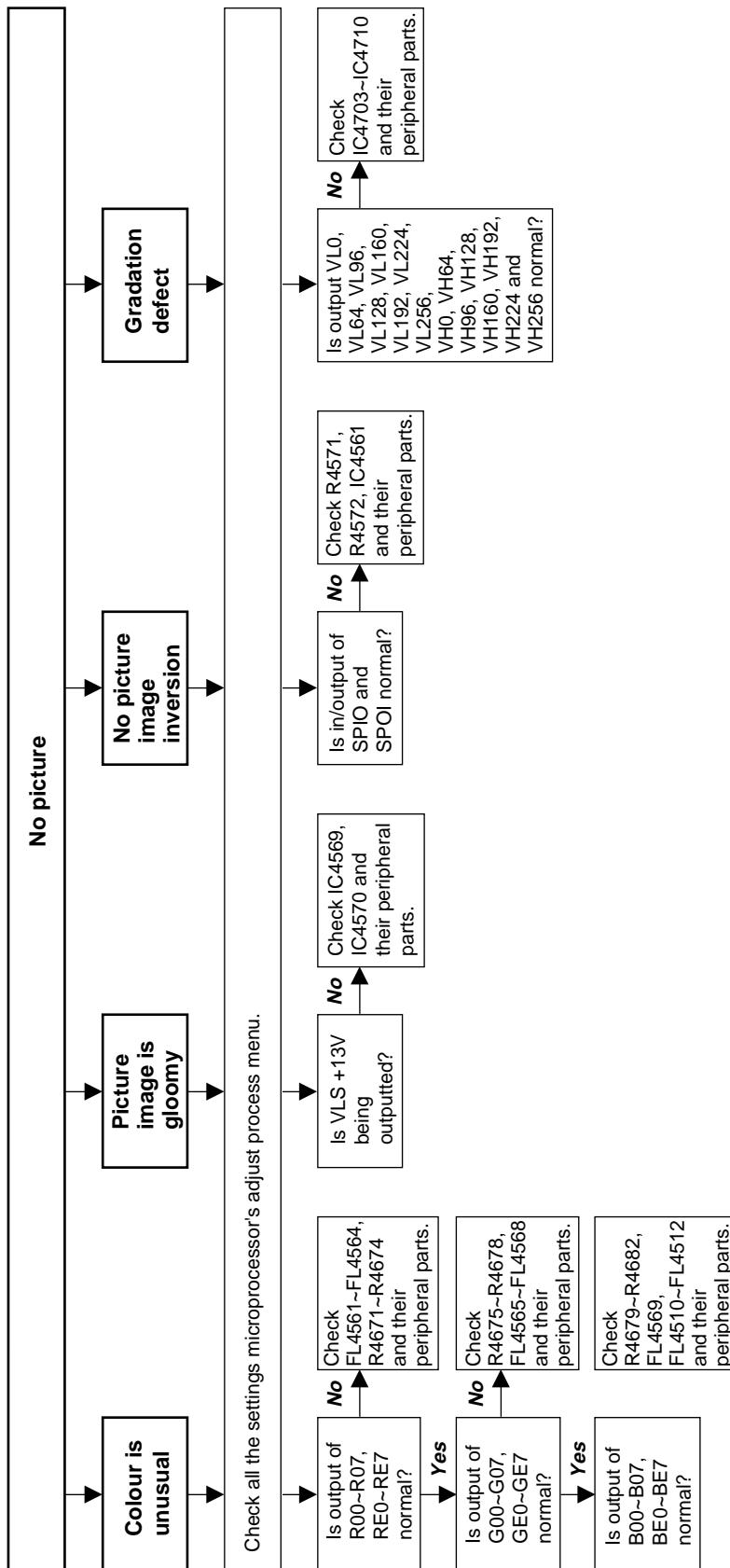
## TROUBLE SHOOTING TABLE (Continued)



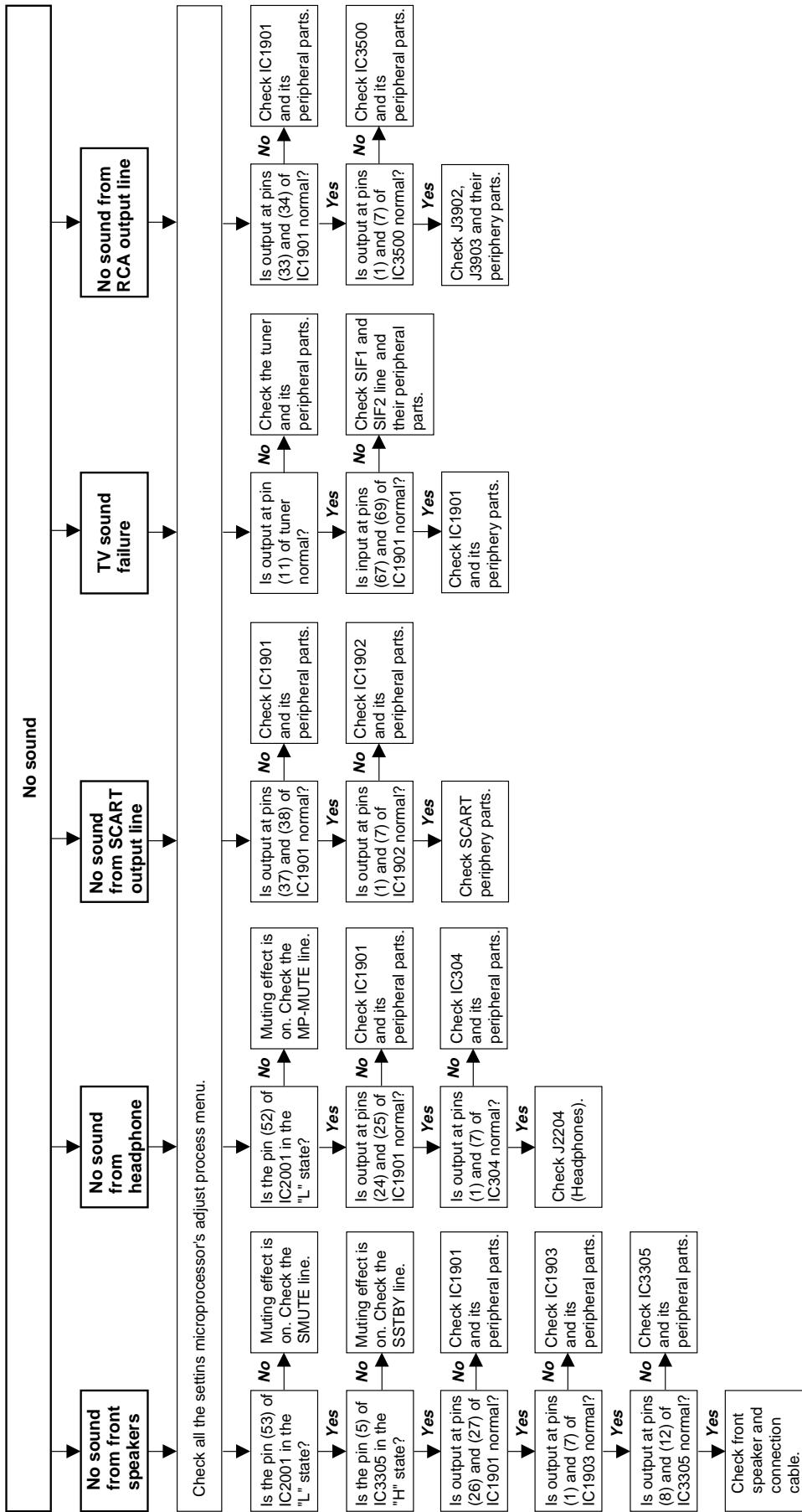
## TROUBLE SHOOTING TABLE (Continued)



## **TROUBLE SHOOTING TABLE (Continued)**

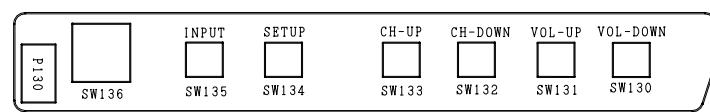


## **TROUBLE SHOOTING TABLE (Continued)**

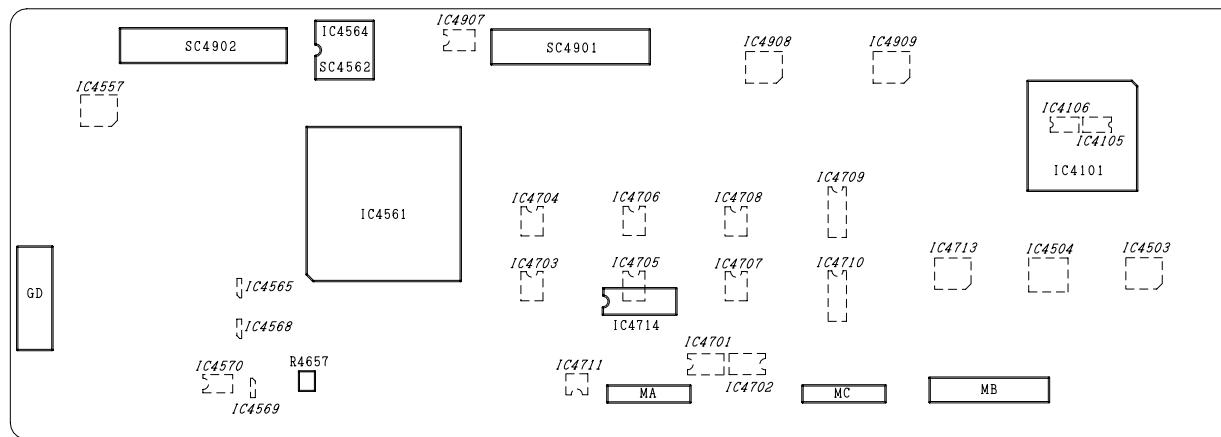


## CHASSIS LAYOUT

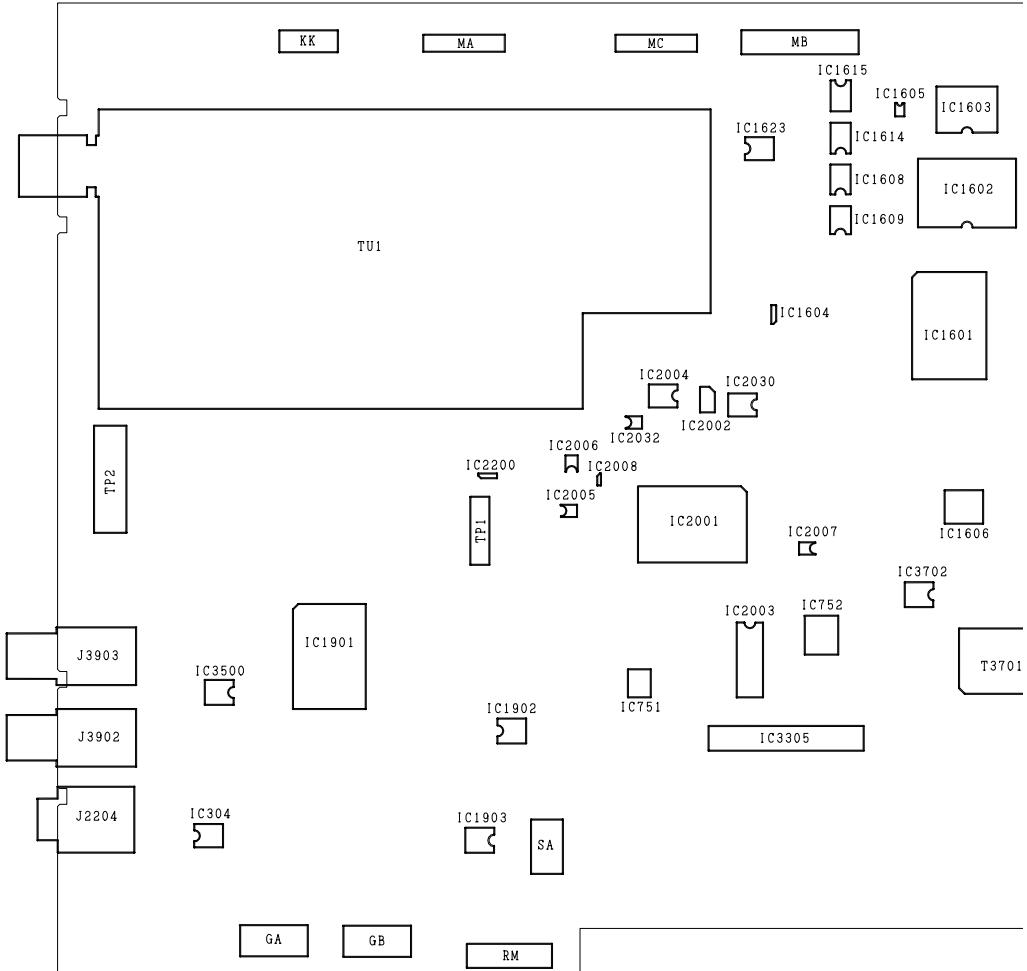
## OPERATION Unit



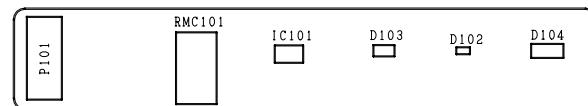
## DIGITAL Unit



## MAIN Unit

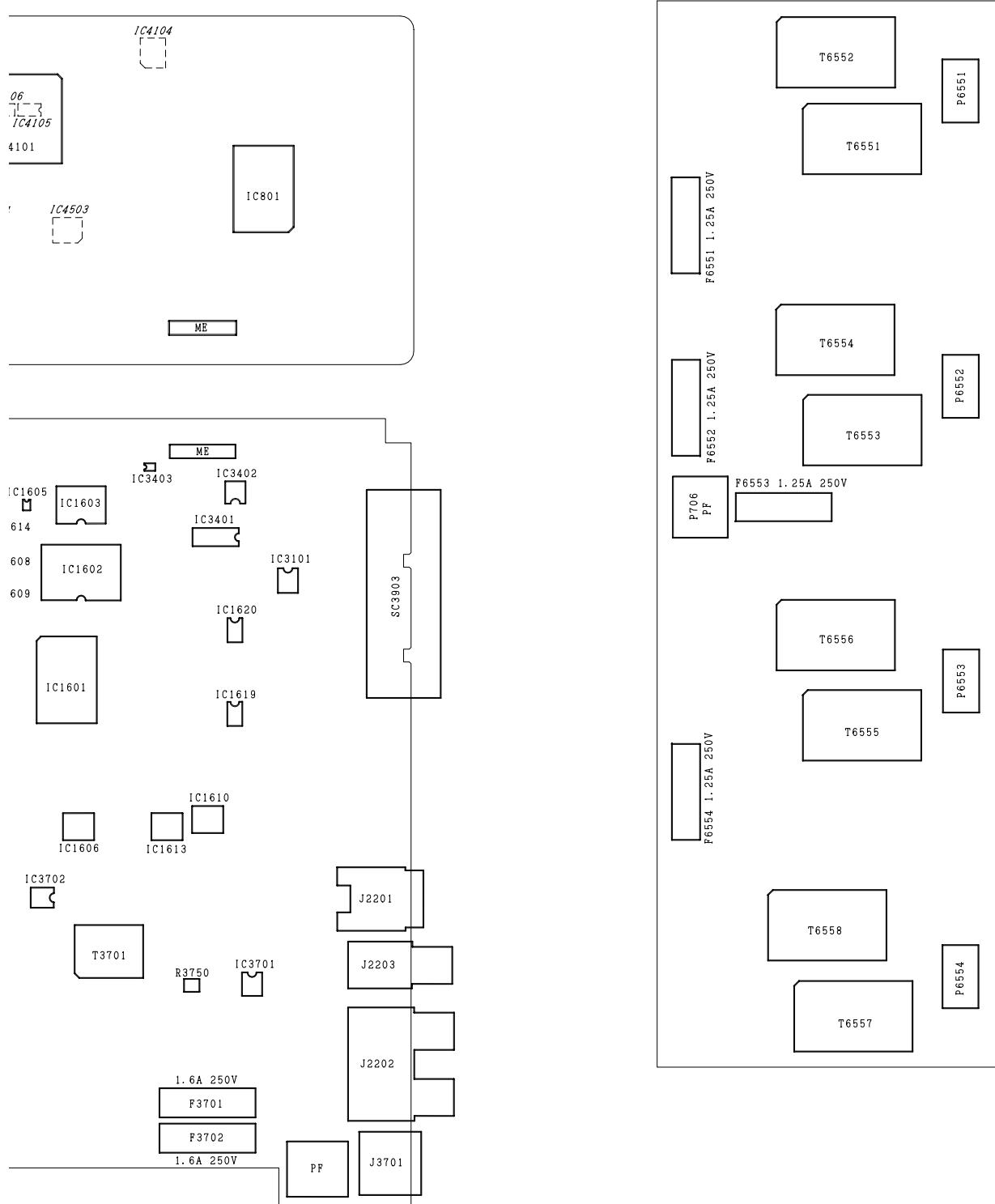


## R/C, LED Unit



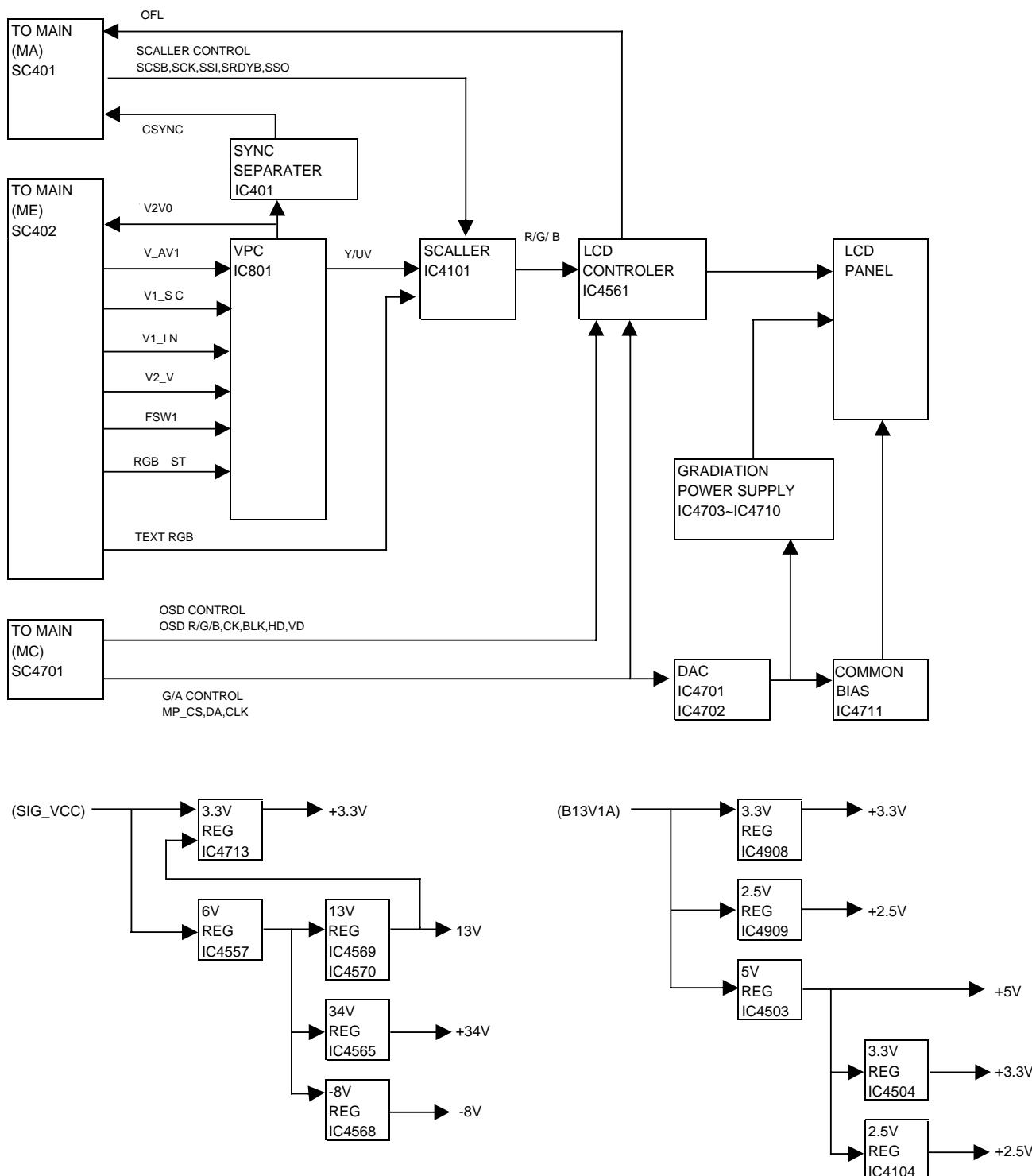
1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----

## INVERTER Unit



## BLOCK DIAGRAM 1/2

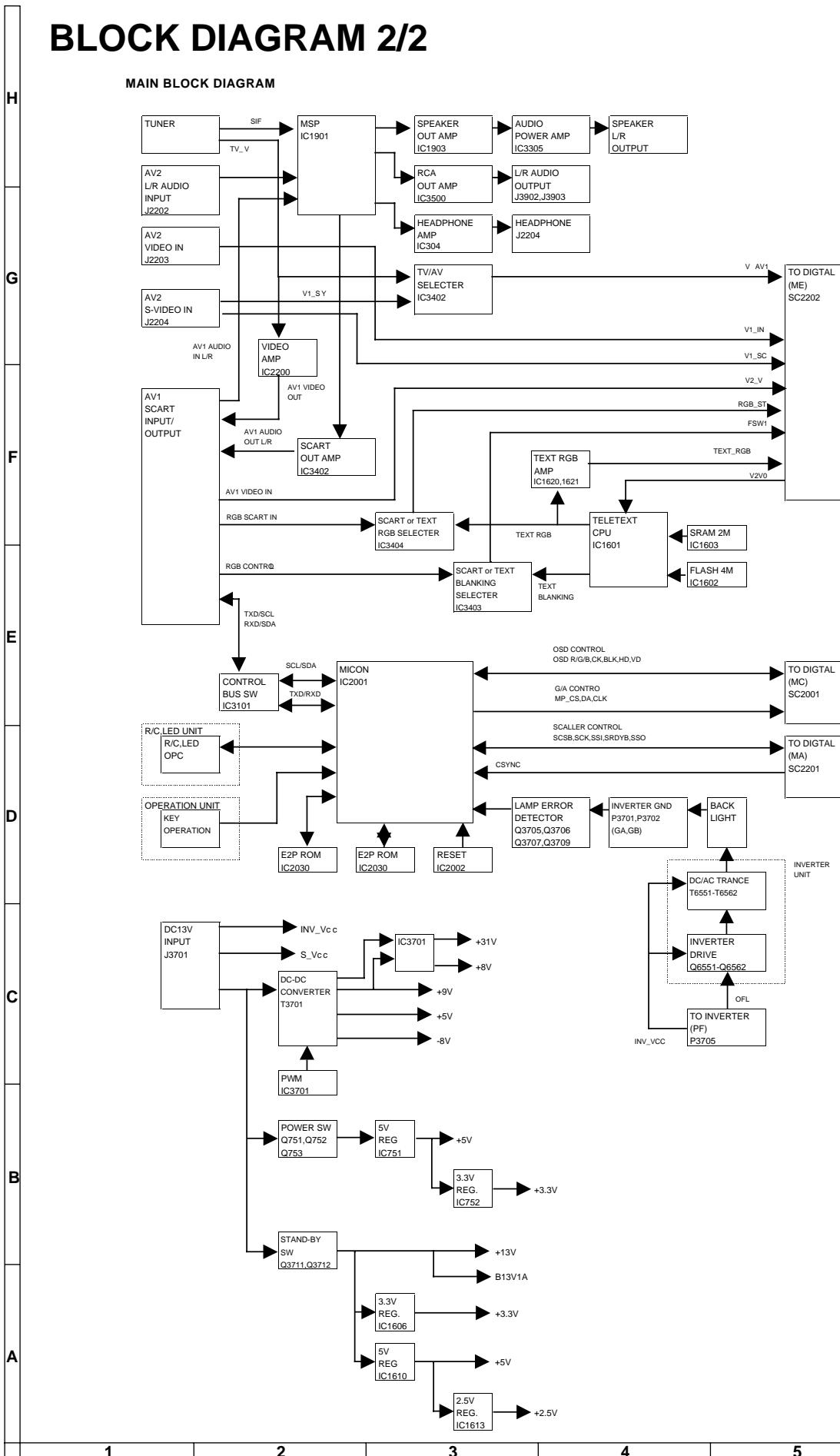
## DIGITAL BLOCK DIAGRAM



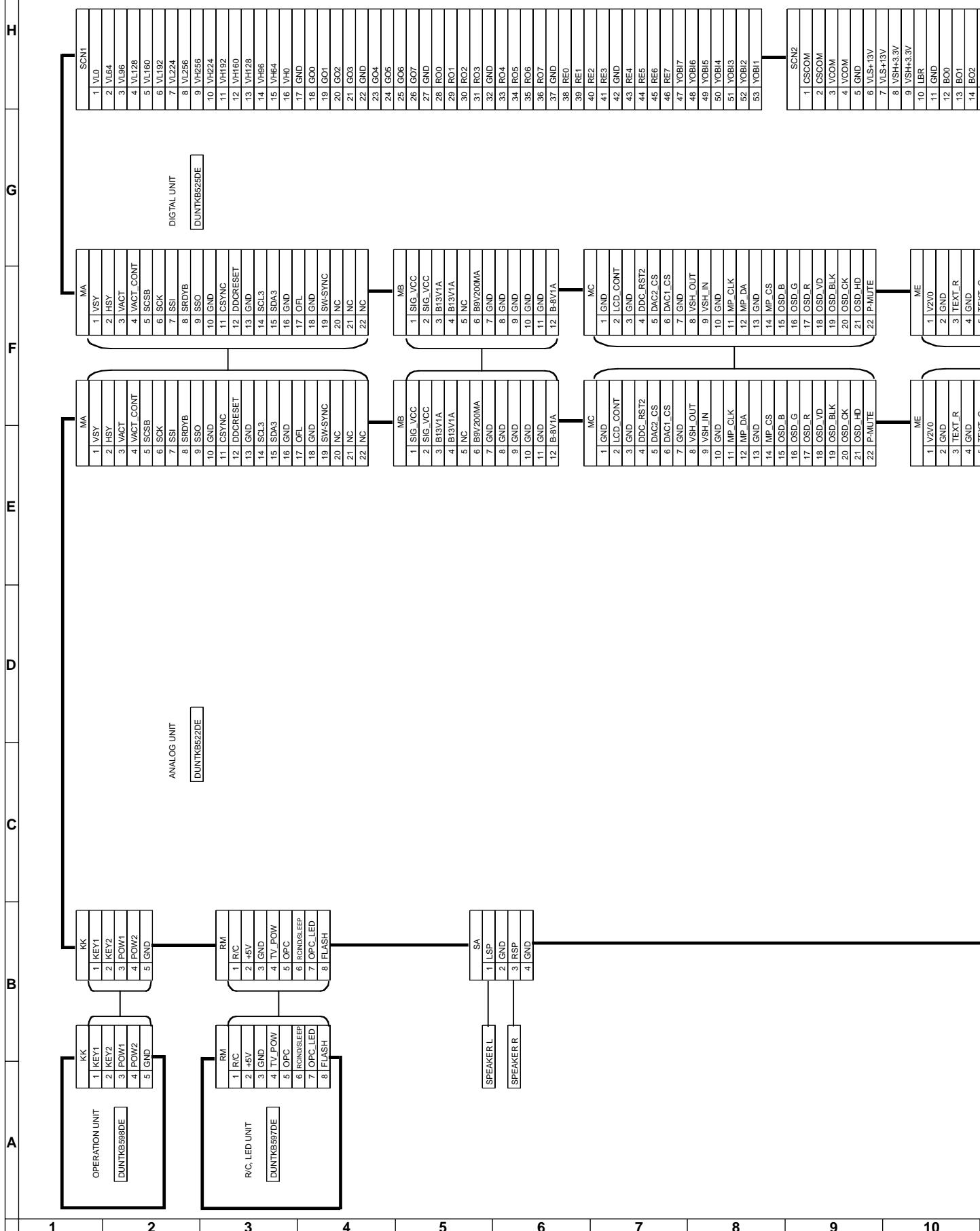
1	2	3	4	5	6
---	---	---	---	---	---

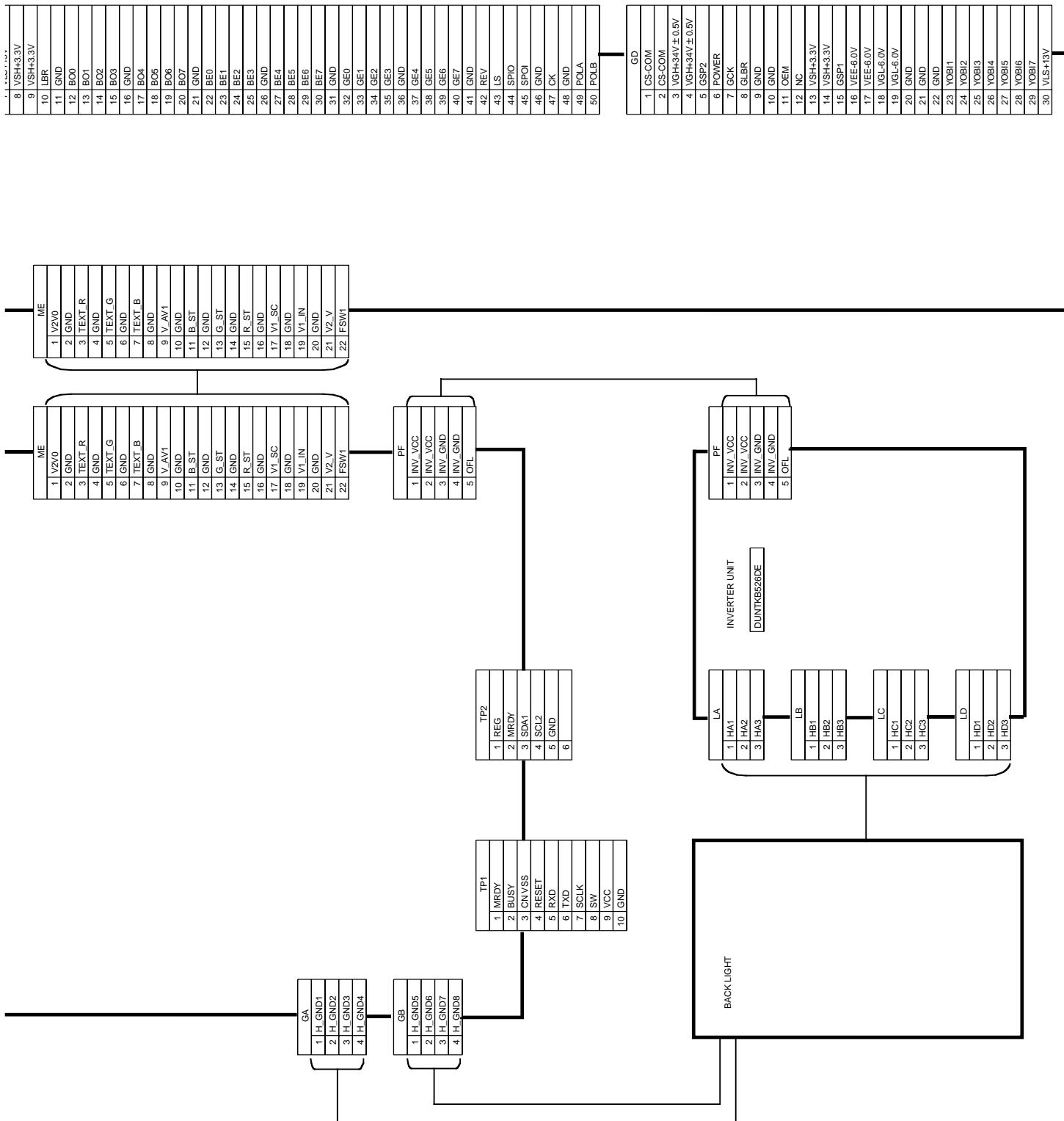
# BLOCK DIAGRAM 2/2

## MAIN BLOCK DIAGRAM



## OVERALL WIRING DIAGRAM





10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----

# DESCRIPTION OF SCHEMATIC DIAGRAM

## VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on exclusive AC adaptor and the stable supply voltage of AC 120V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

## INDICATION OF RESISTOR & CAPACITOR:

### RESISTOR

1. The unit of resistance “ $\Omega$ ” is omitted.  
(K=k $\Omega$ =1000  $\Omega$ , M=M $\Omega$ ).
2. All resistors are  $\pm 5\%$ , unless otherwise noted.  
(J=  $\pm 5\%$ , F=  $\pm 1\%$ , D=  $\pm 0.5\%$ )
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

Ⓐ: Solid ⓒ: Cement

Ⓑ: Oxide Film Ⓝ: Special

Ⓒ: Metal Coating

### CAPACITOR

1. All capacitors are  $\mu\text{F}$ , unless otherwise noted.  
(P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.  
(ML): Mylar (TA): Tantalum  
(PF): Polypro Film (ST): Styrol

### CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

### IMPORTANT SAFETY NOTICE:

**PARTS MARKED WITH “ $\Delta$ ” ( [REDACTED] ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.**

# SCHEMATIC DIAGRAM

## ■OPERATION Unit

OPERATION

H

G

F

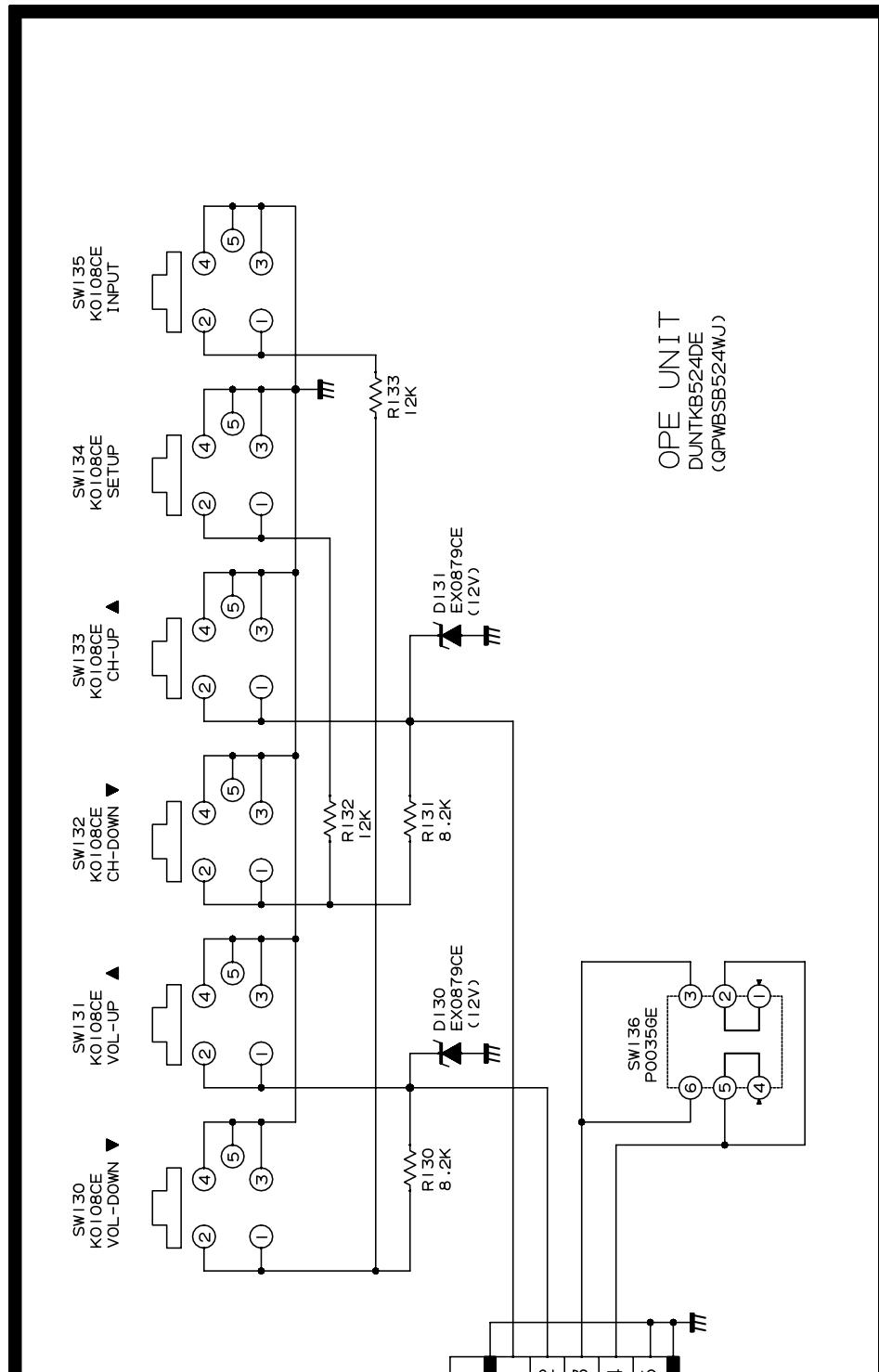
E

D

C

B

A



1

2

3

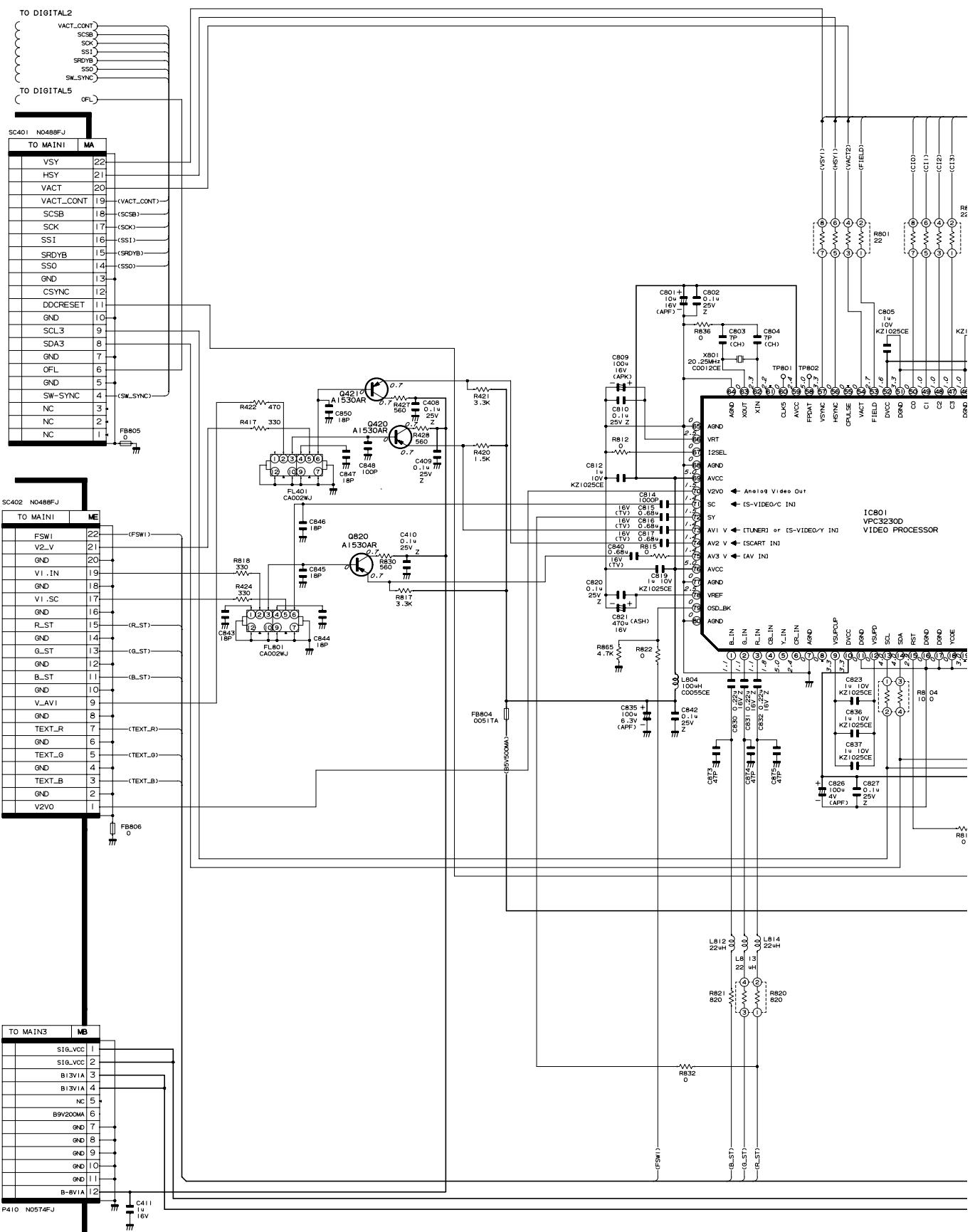
4

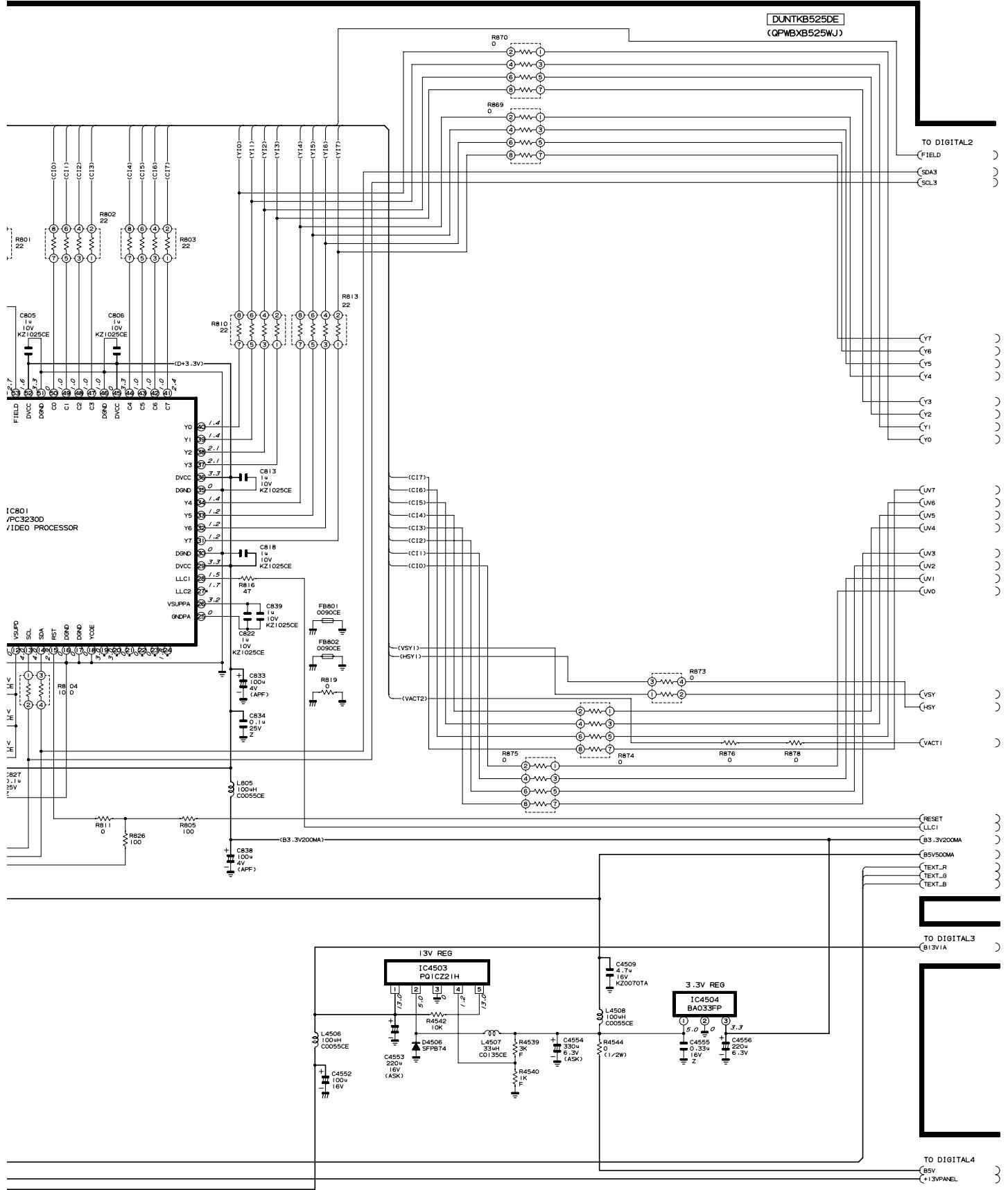
5

6

## ■ DIGITAL Unit-1/5

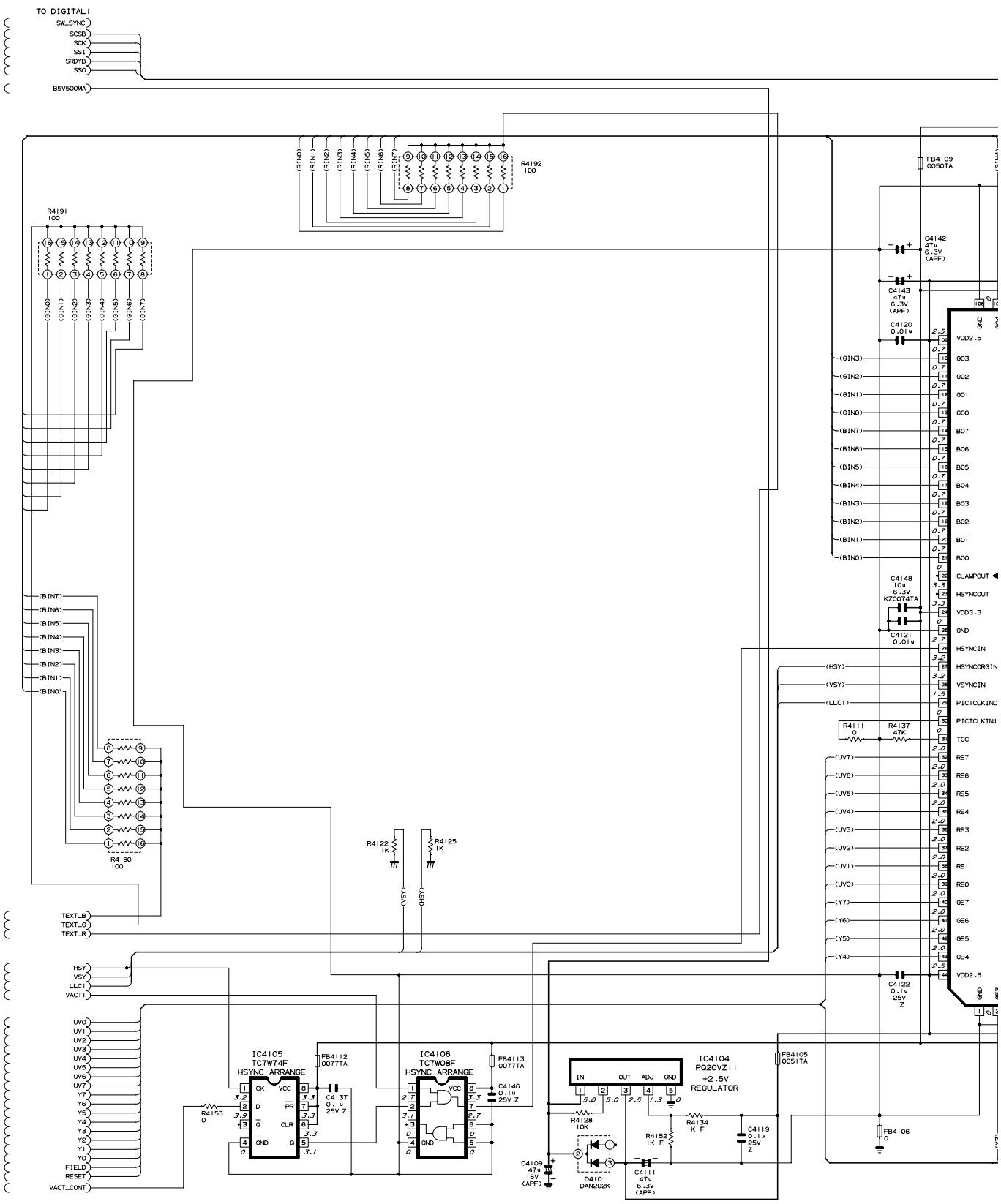
DIGITAL I

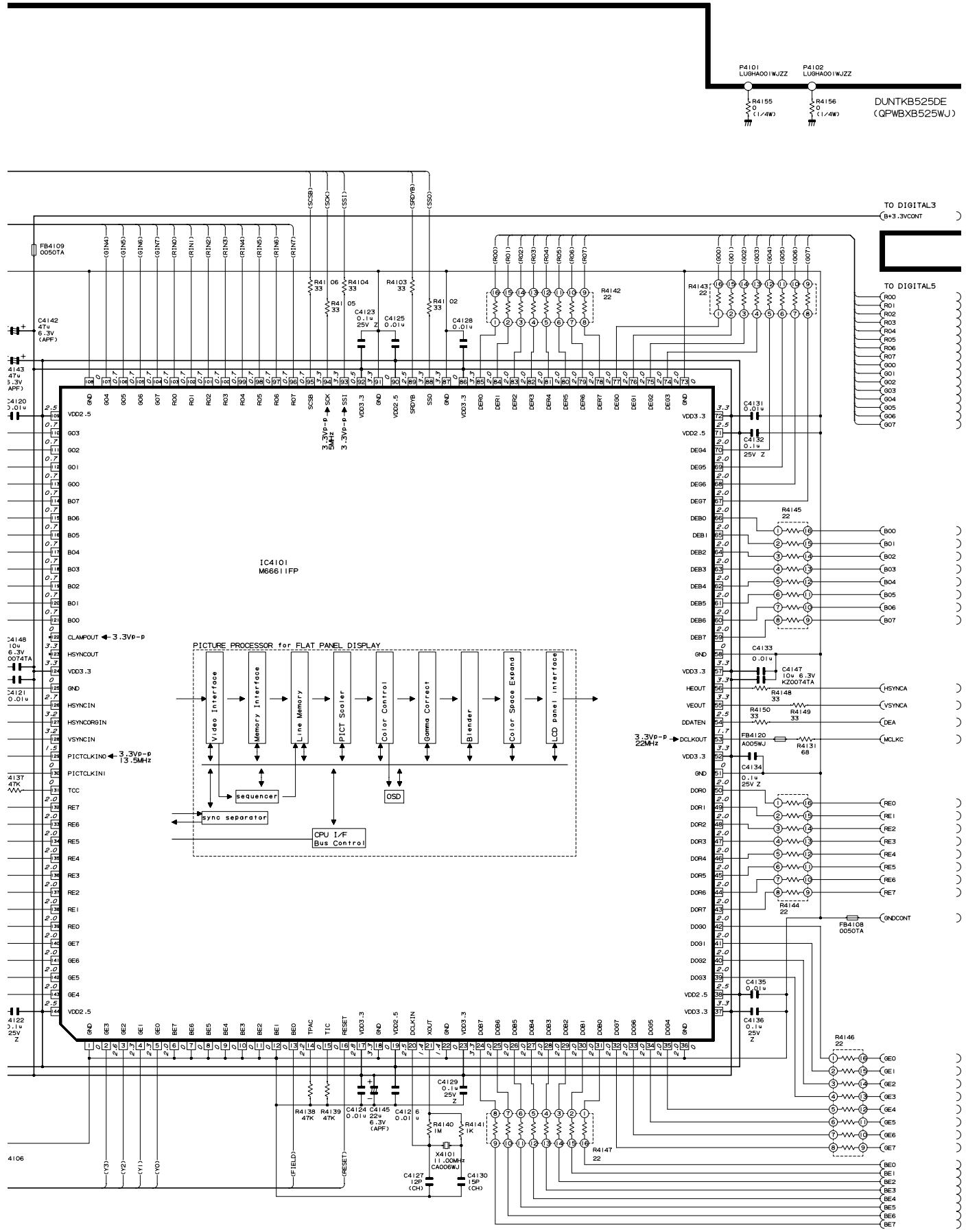




## ■ DIGITAL Unit-2/5

DIGITAL 2





## ■ DIGITAL Unit-3/5

H

F

E

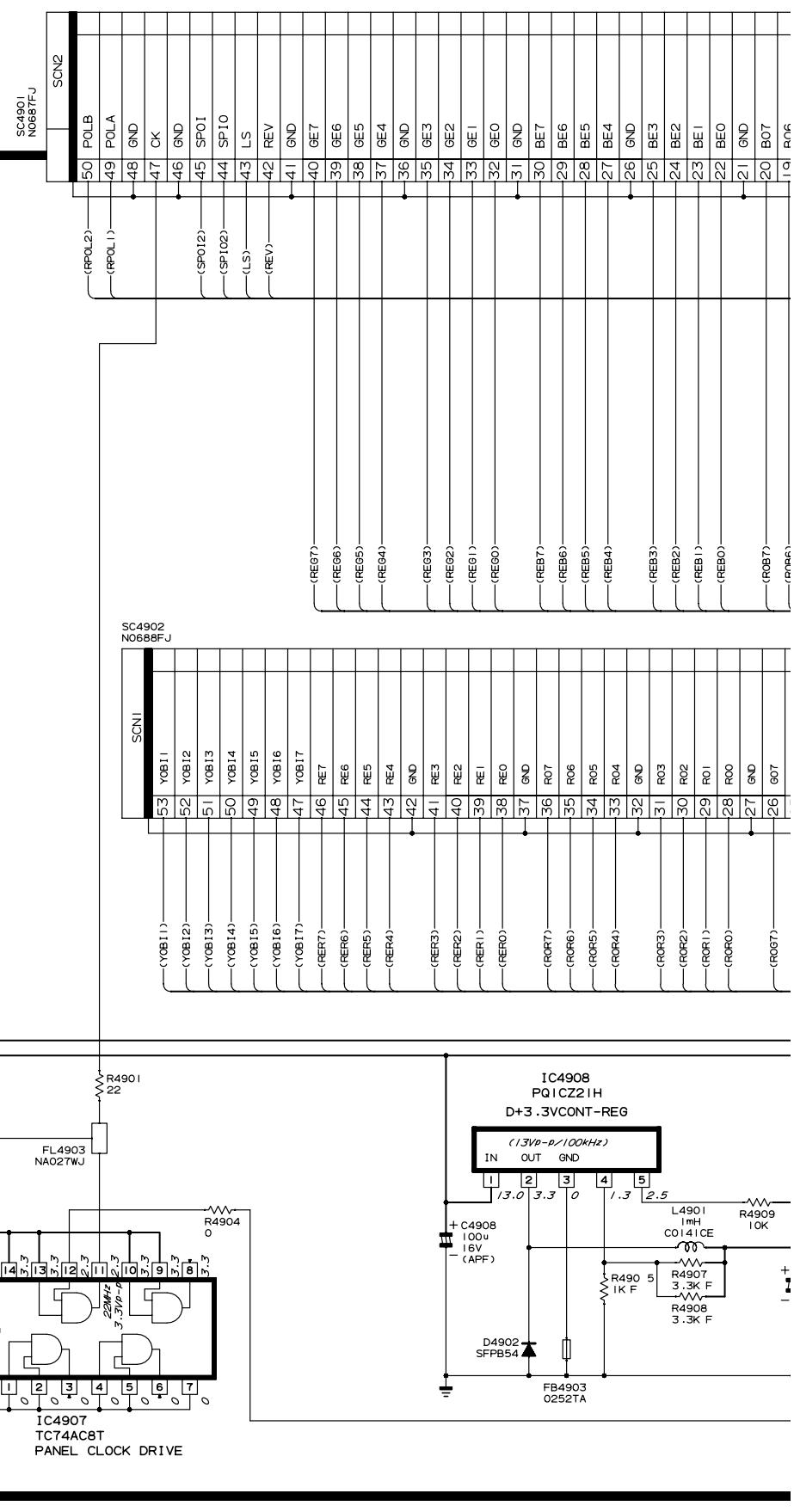
D

C

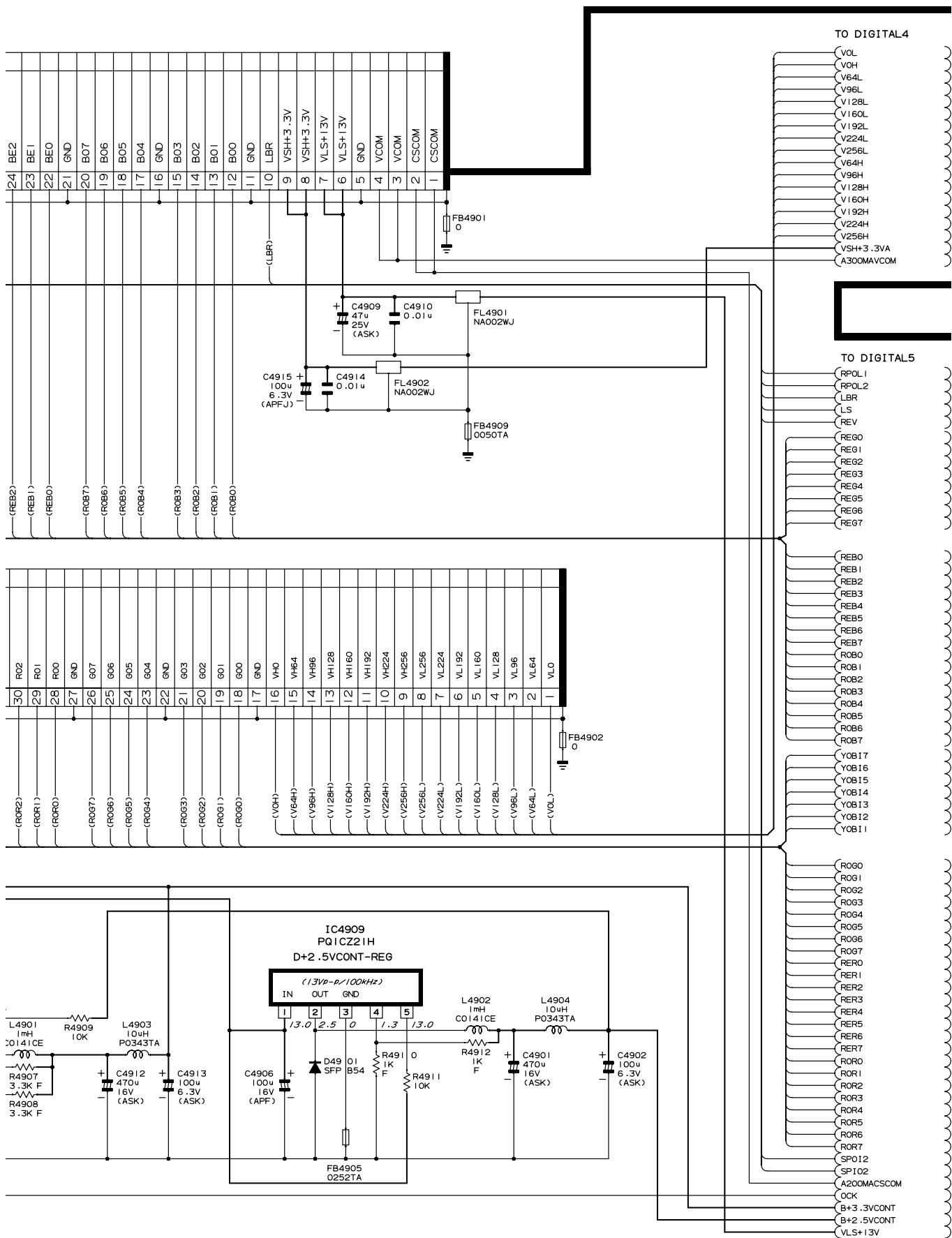
B

A

DIGITAL3

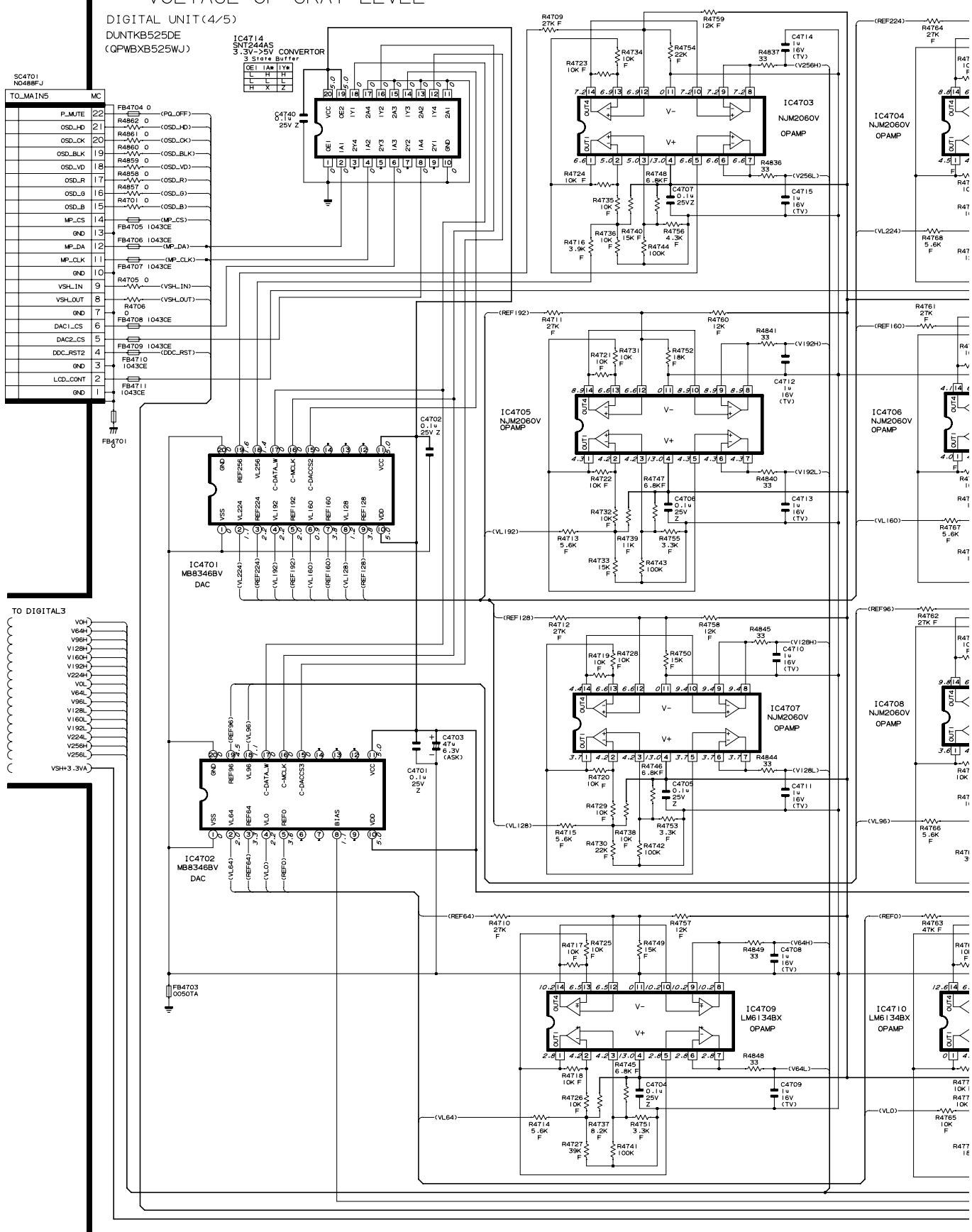
DUNTKB525DE  
(QPWBXB525WJ)

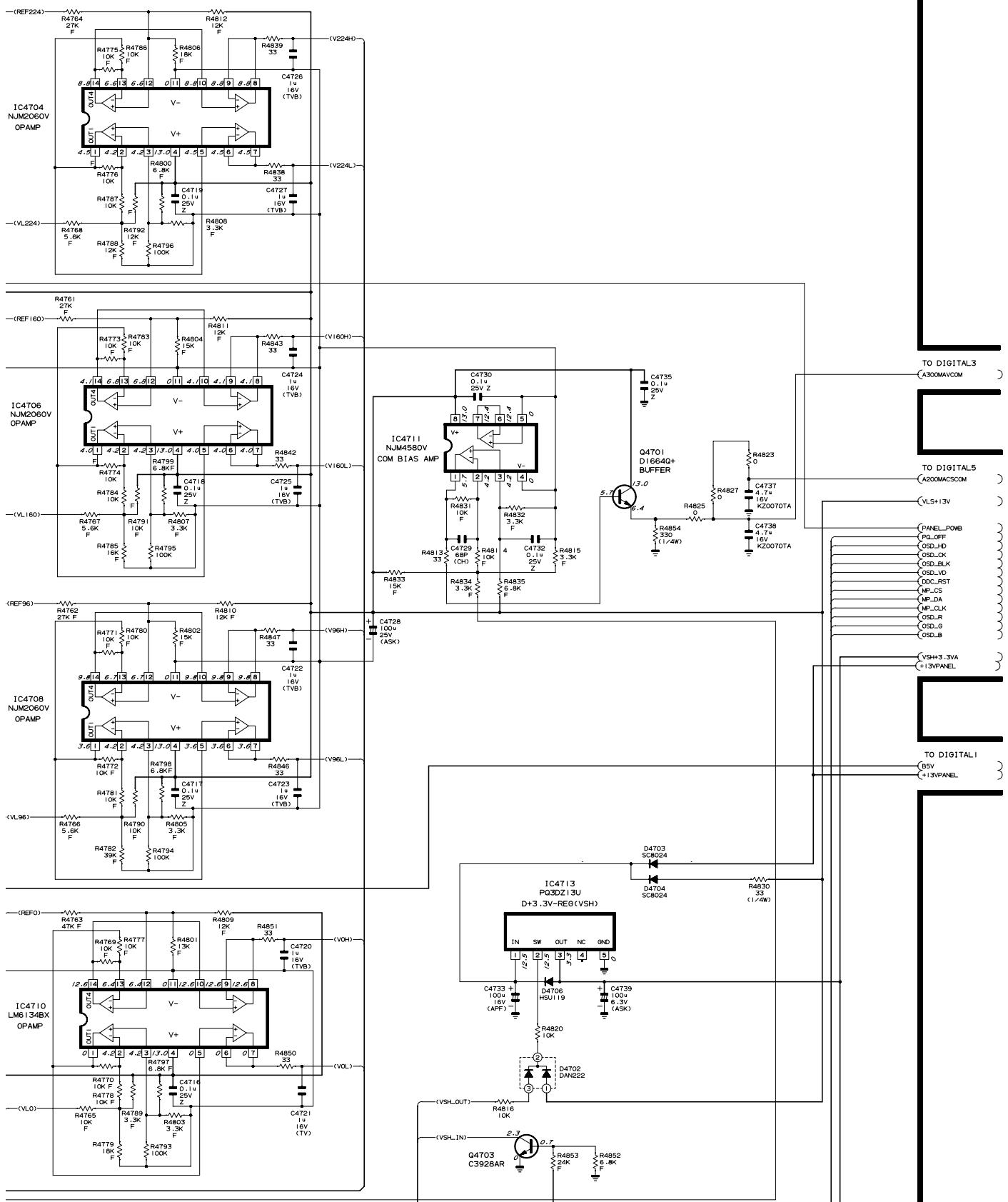
1 2 3 4 5 6 7 8 9 10



## ■ DIGITAL Unit-4/5

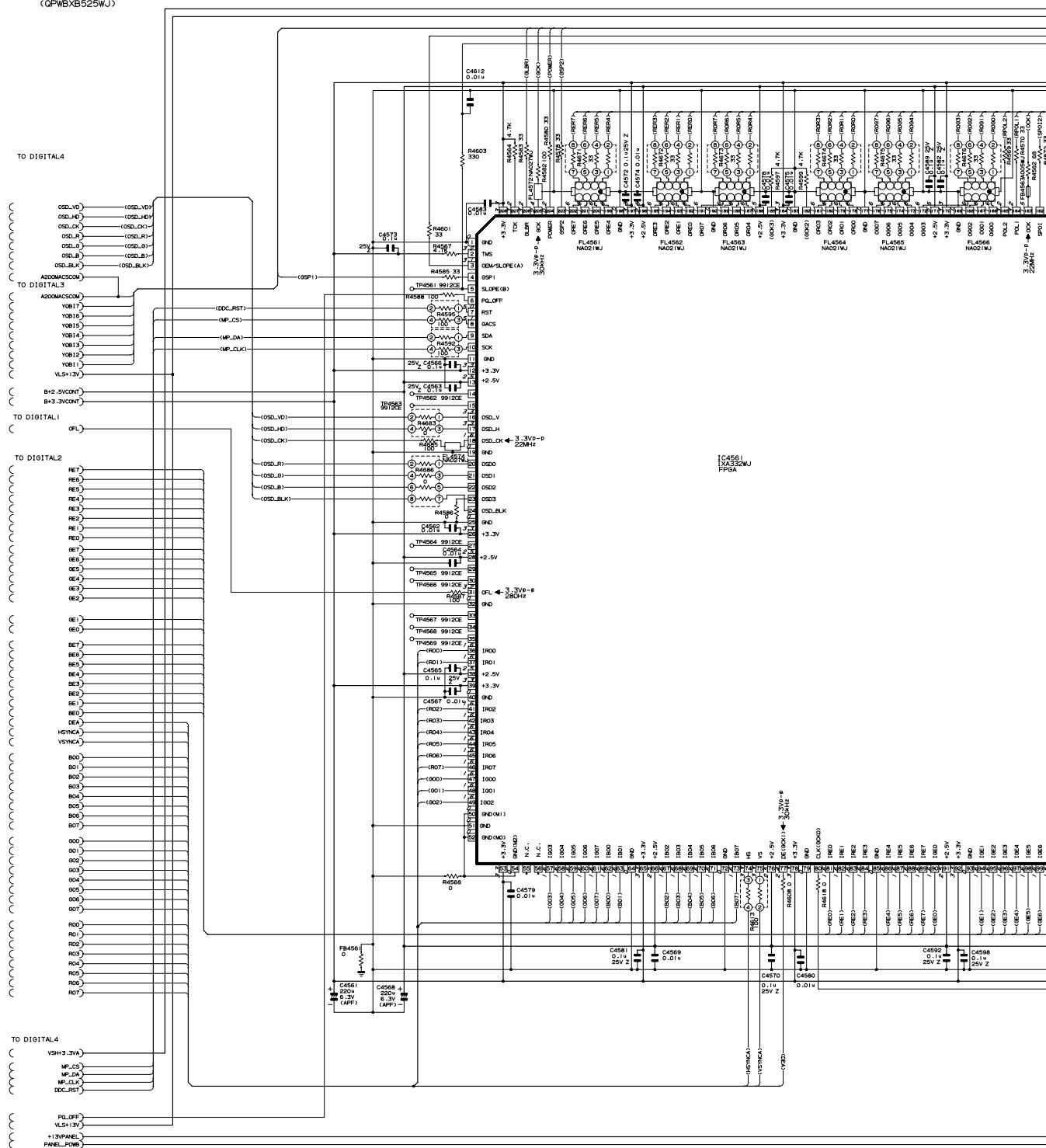
DIGITAL4

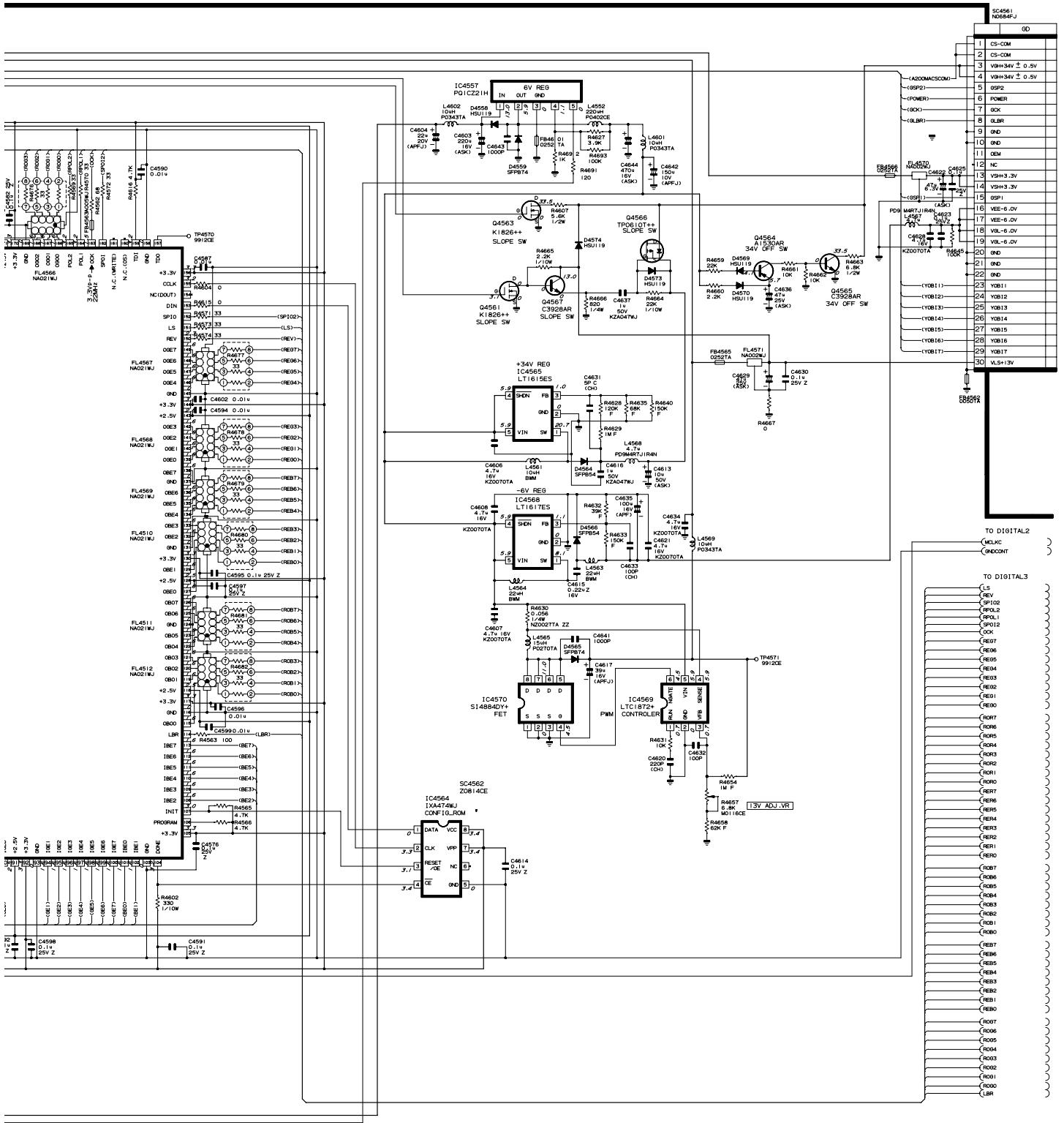




## ■ DIGITAL Unit-5/5

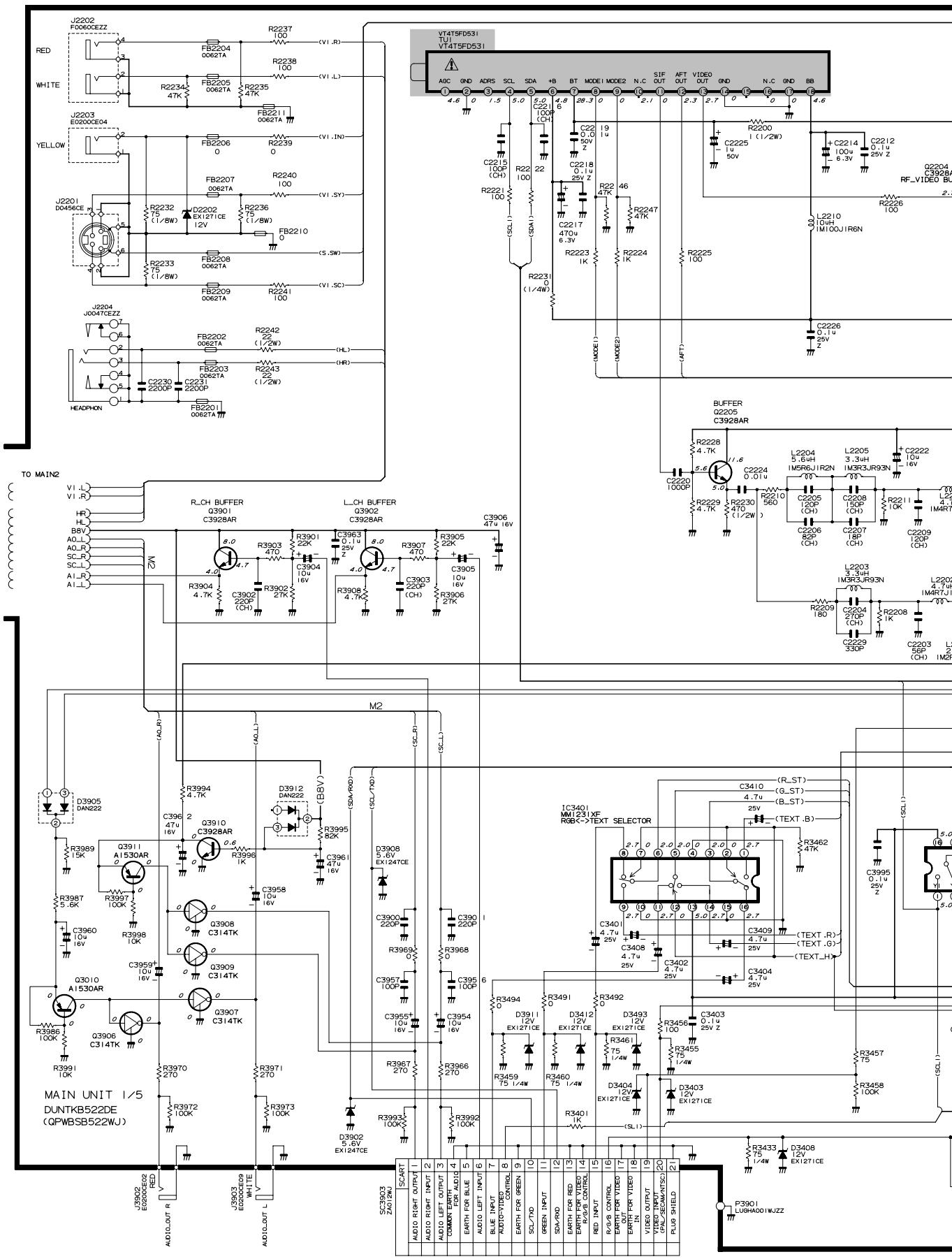
DIGITAL UNIT(5/5)  
DUNTKB525DE  
(QPWMBXB525W-J)

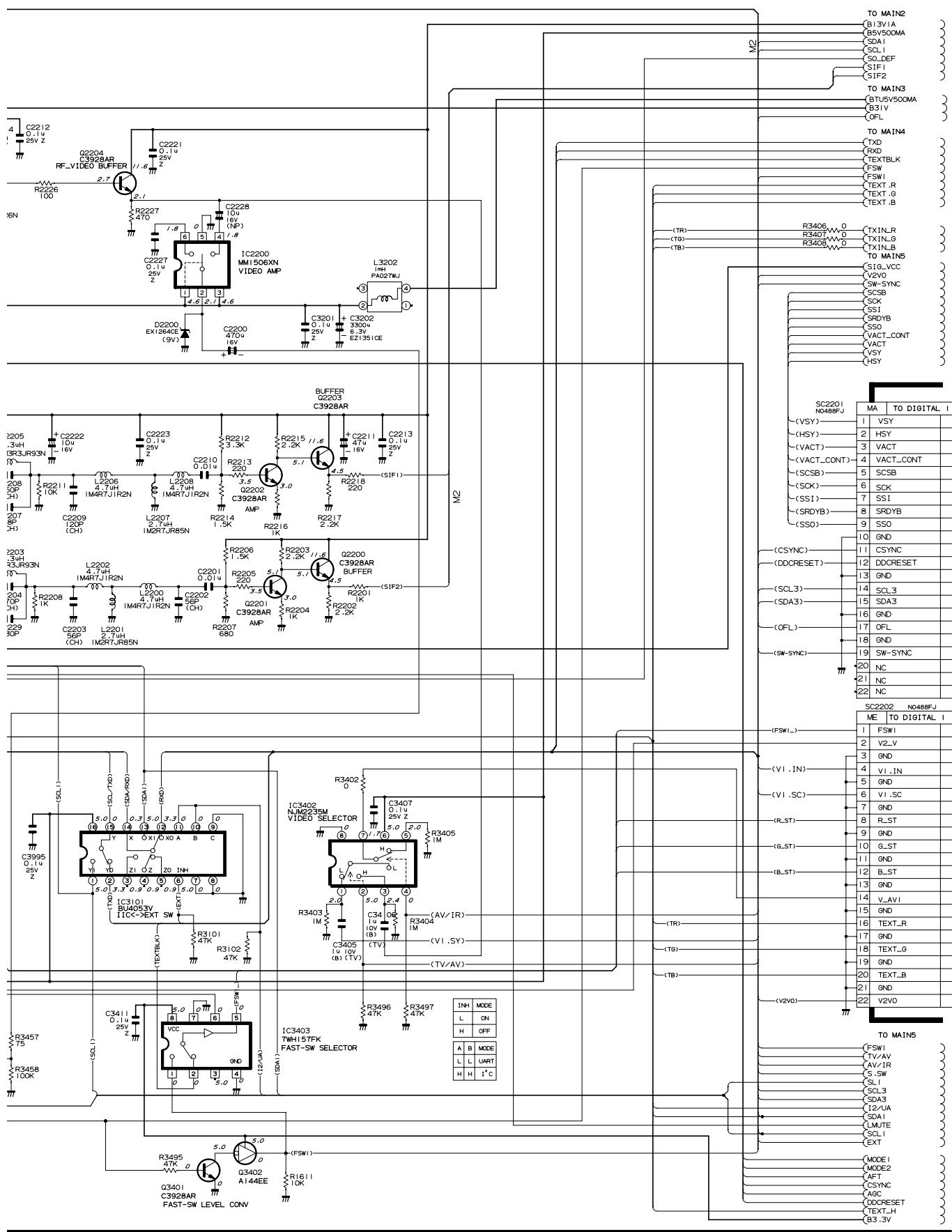




## ■ MAIN Unit-1/5

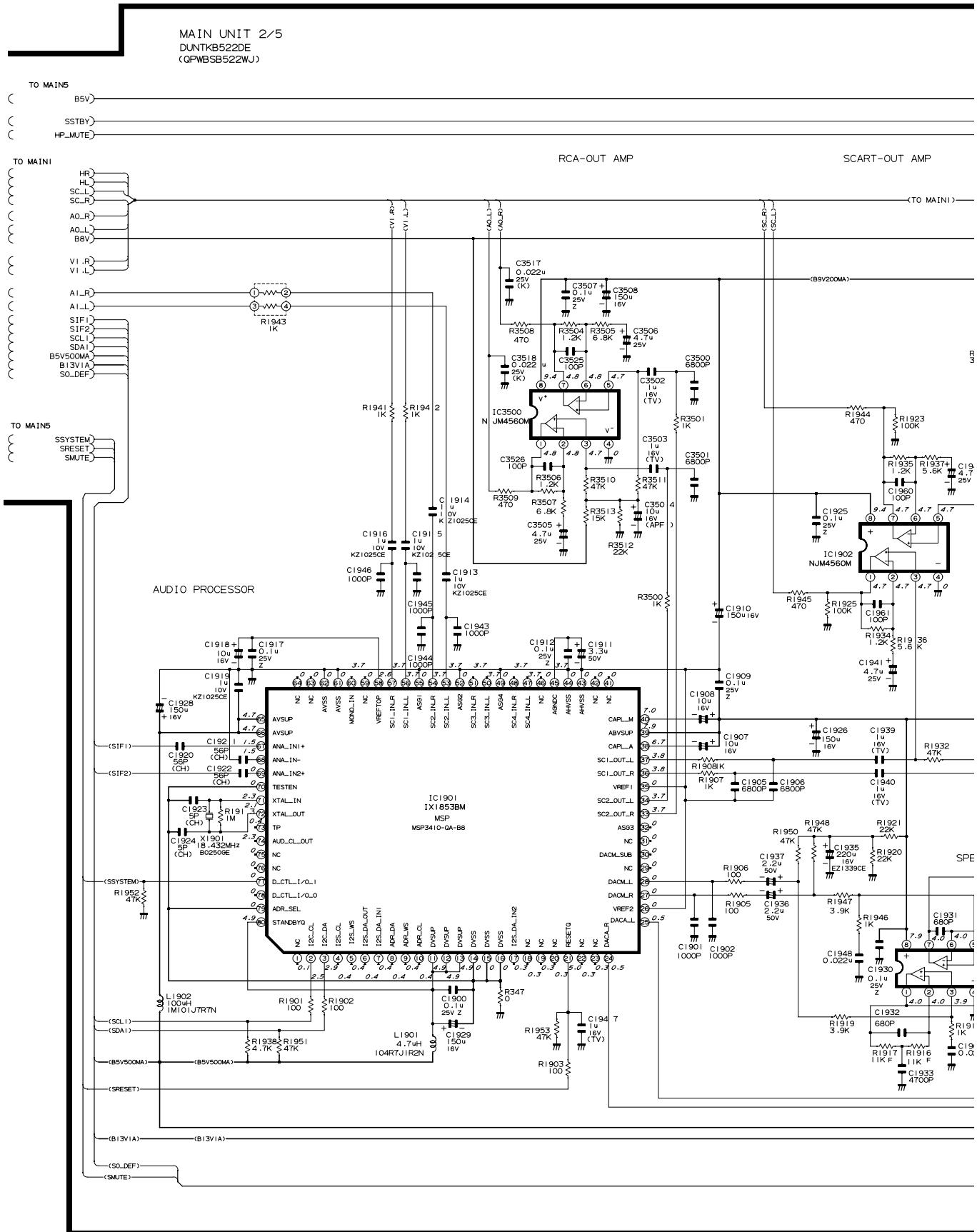
## MAIN

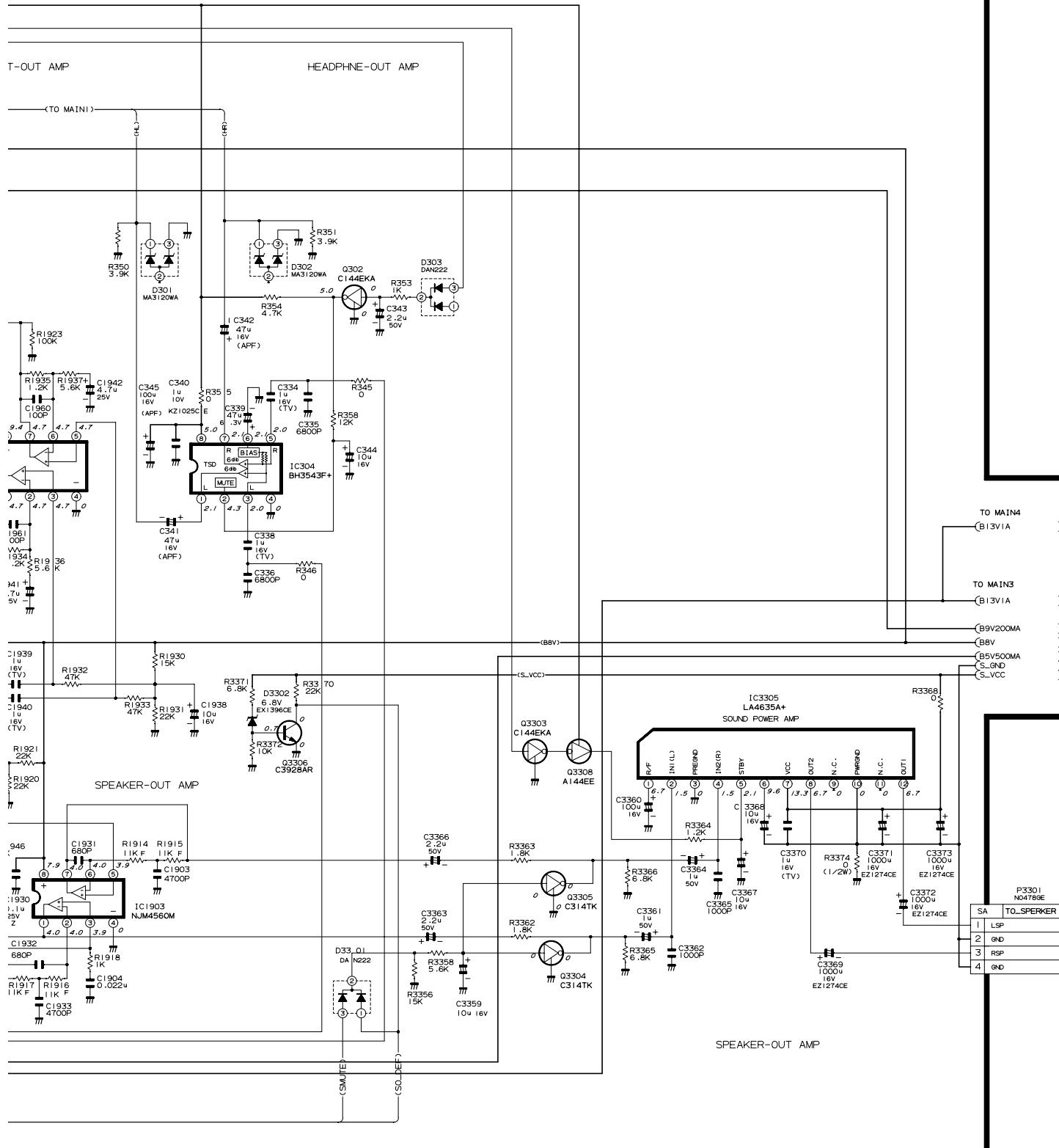




■ MAIN Unit-2/5

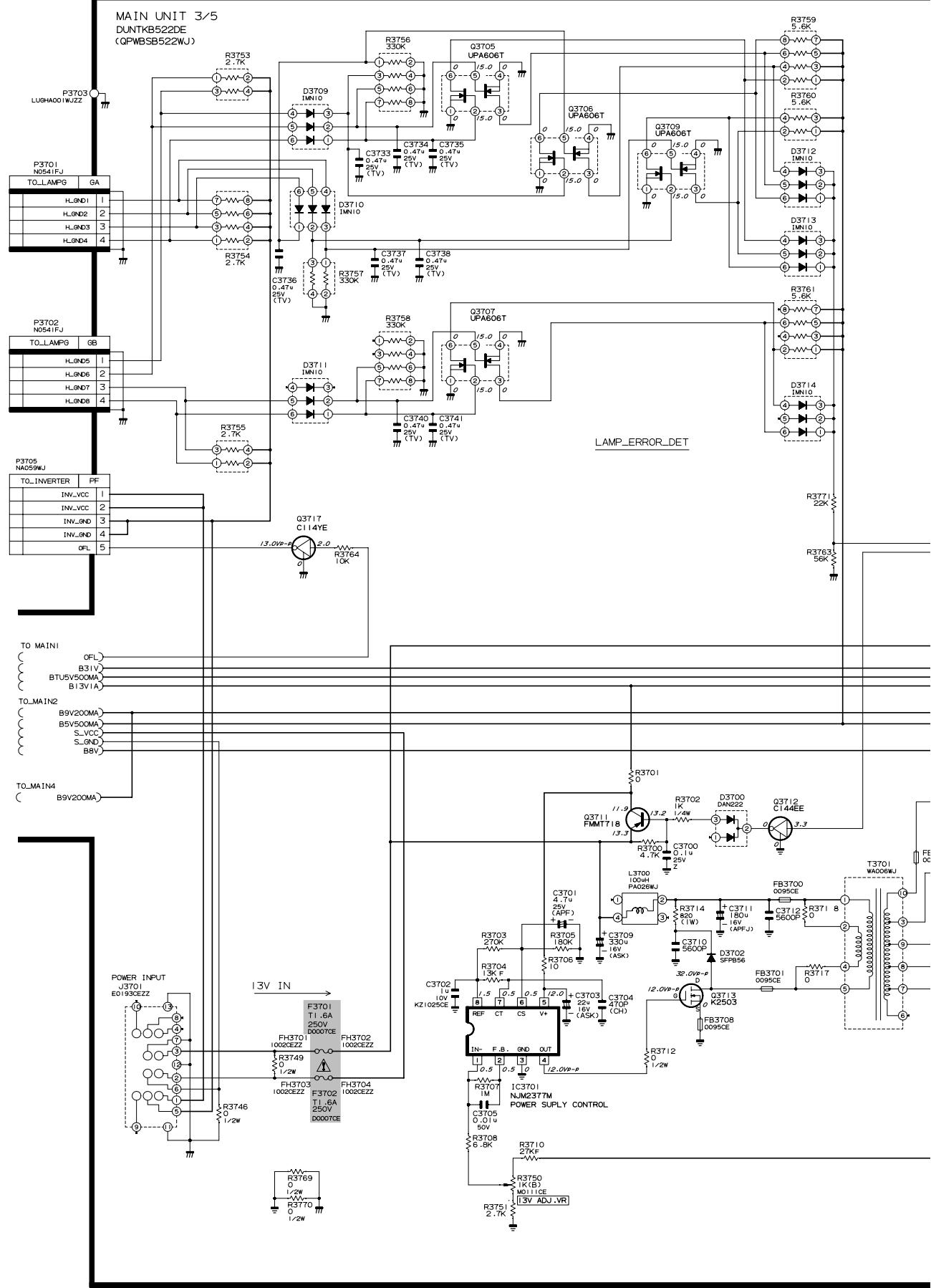
## MAIN 2

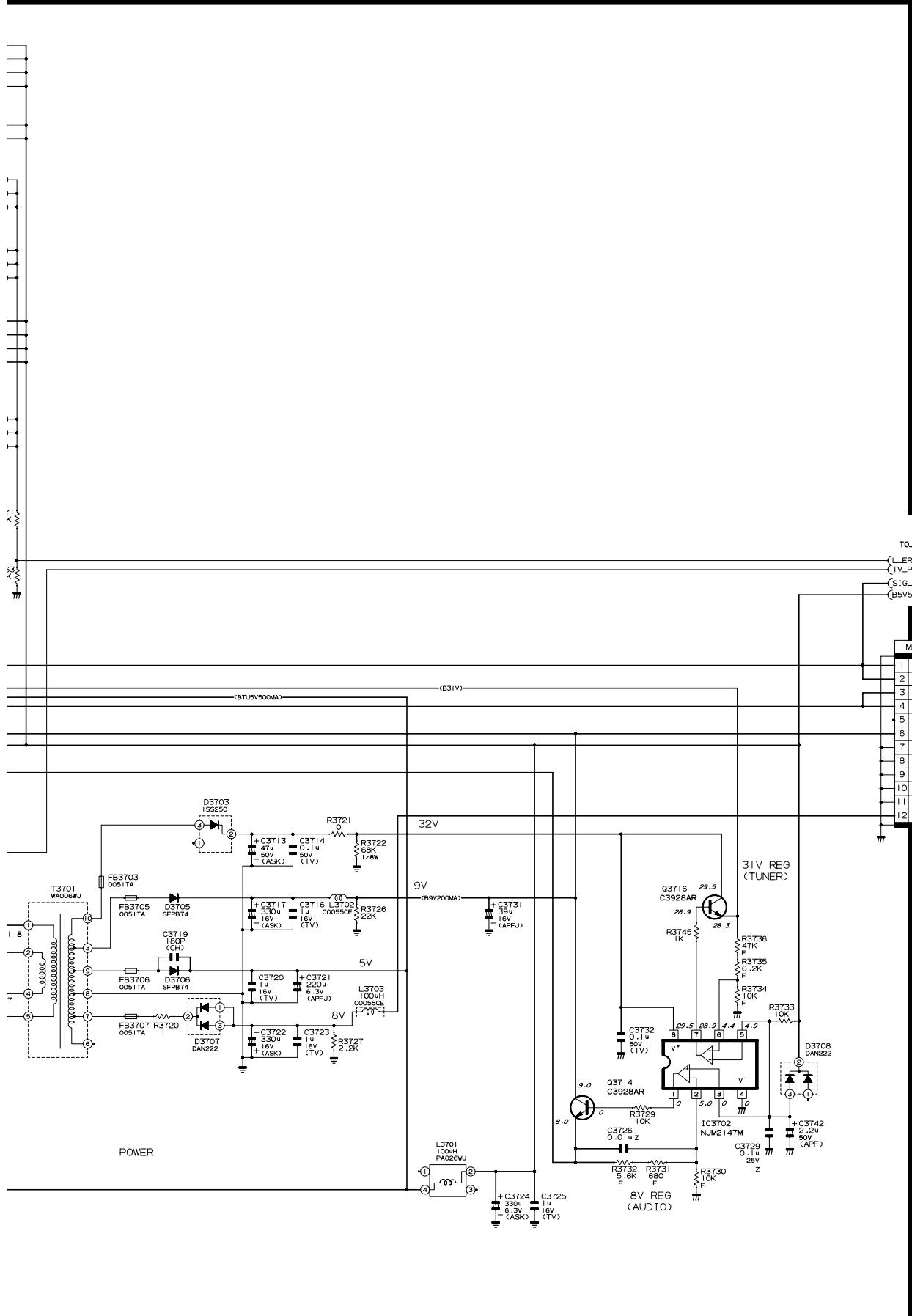




## ■ MAIN Unit-3/5

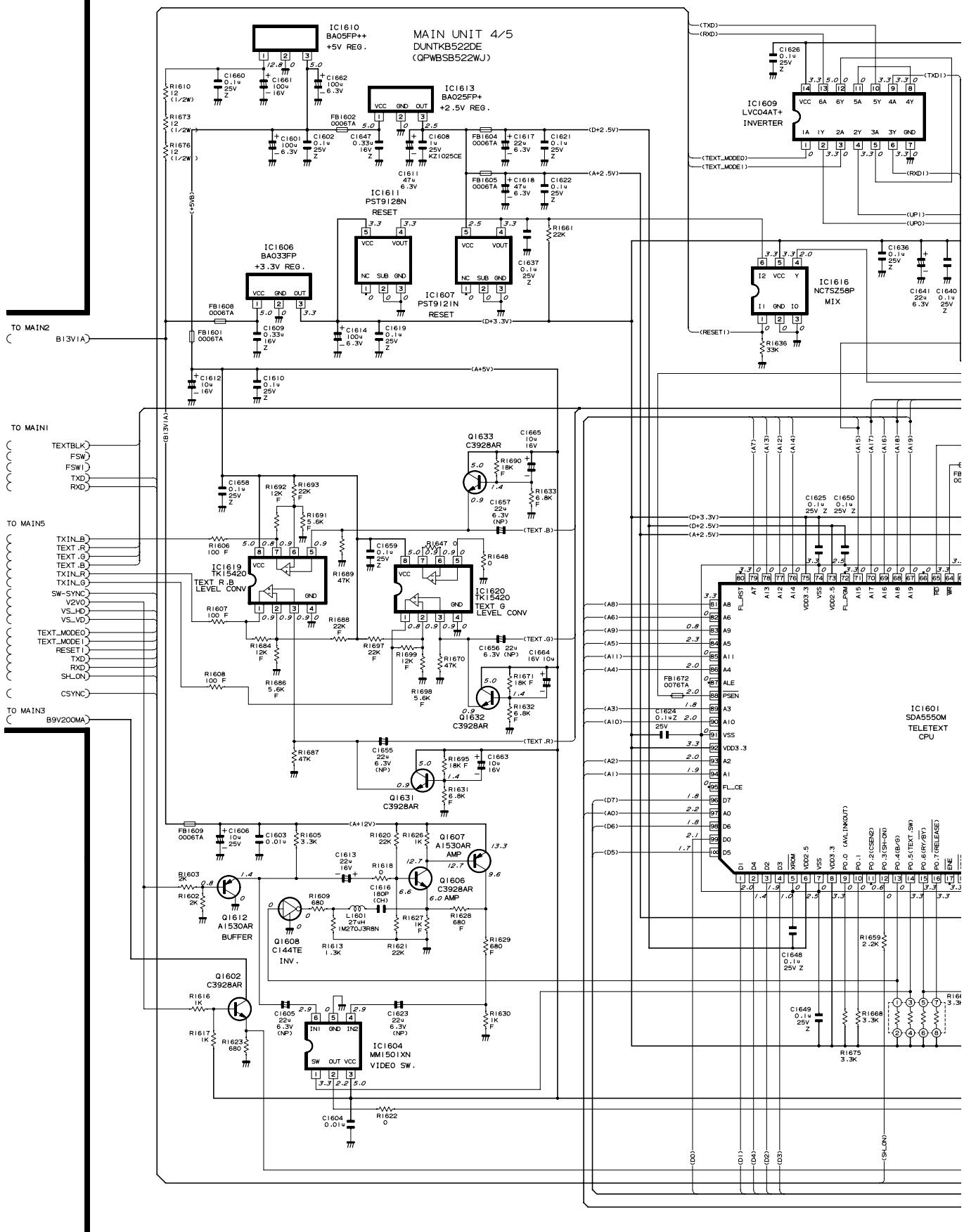
MAIN3

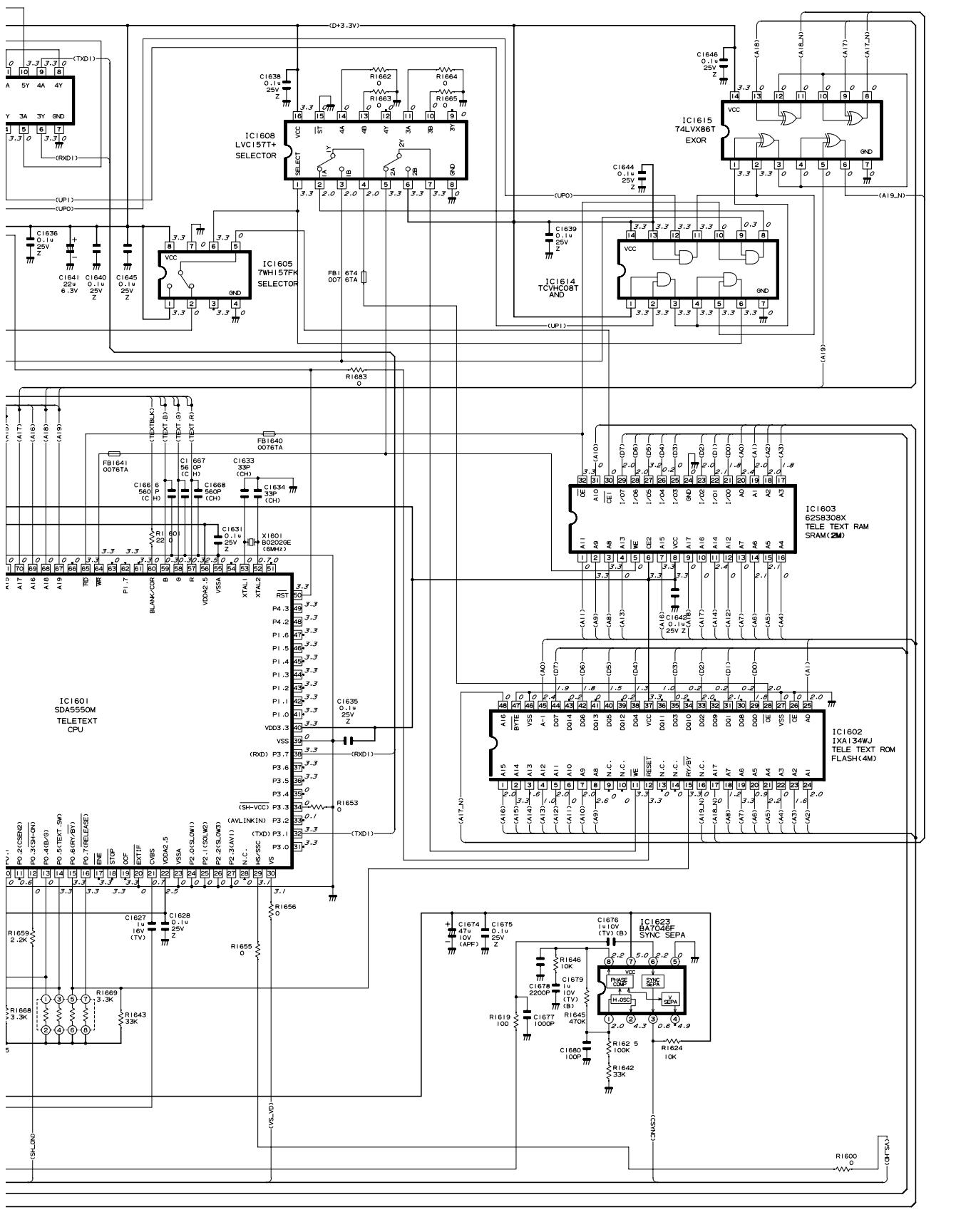




## ■ MAIN Unit-4/5

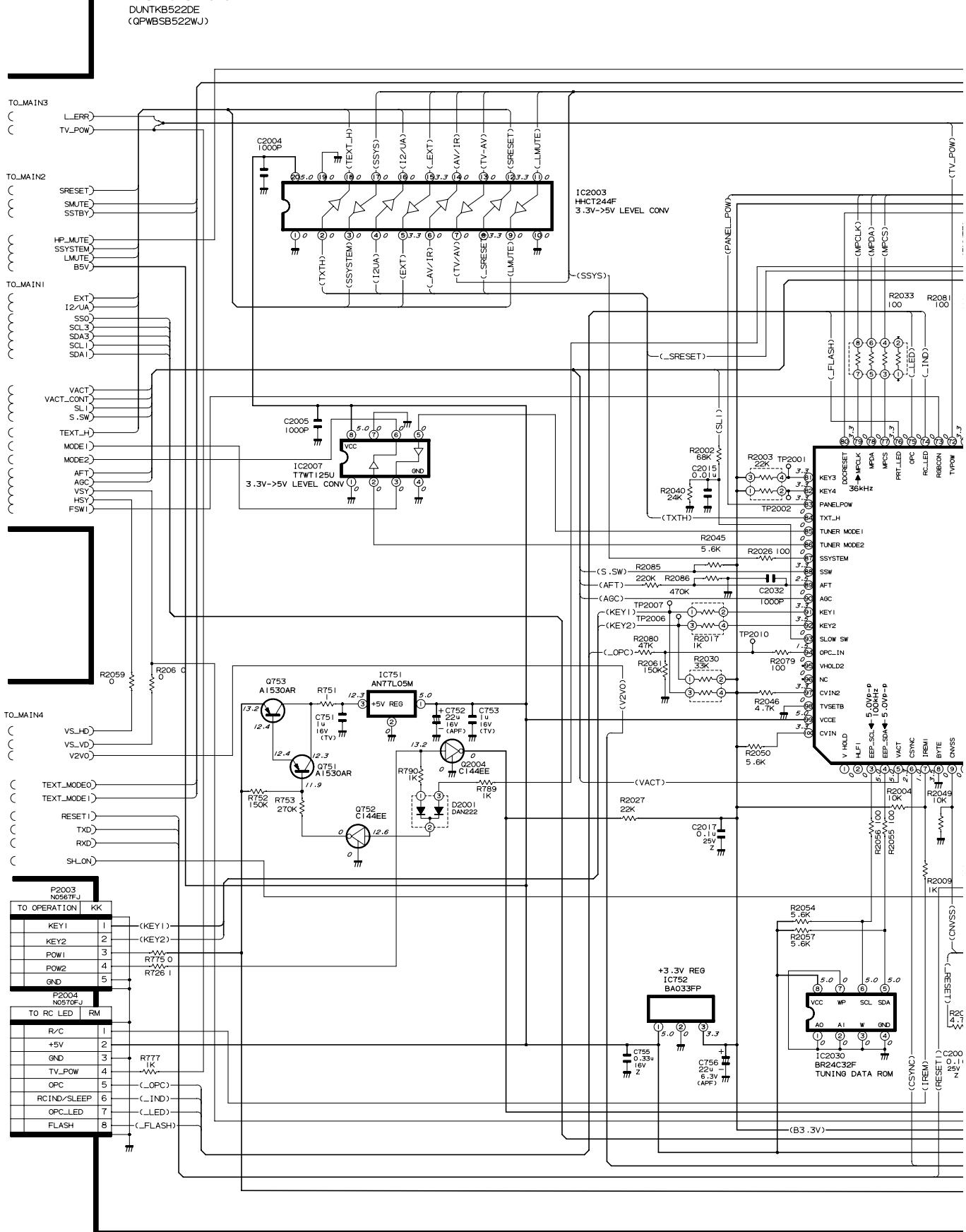
MAIN 4

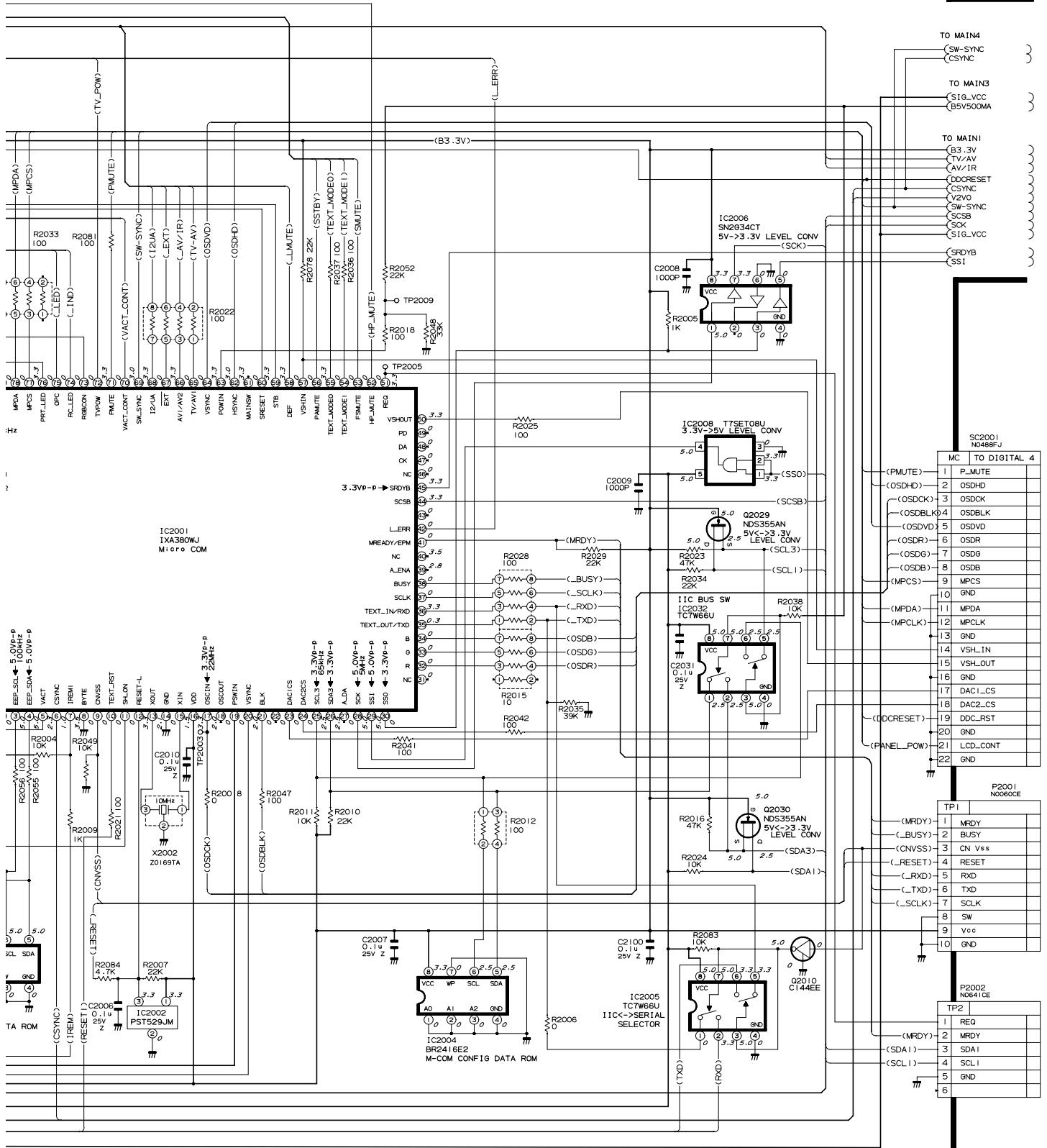




## ■ MAIN Unit-5/5

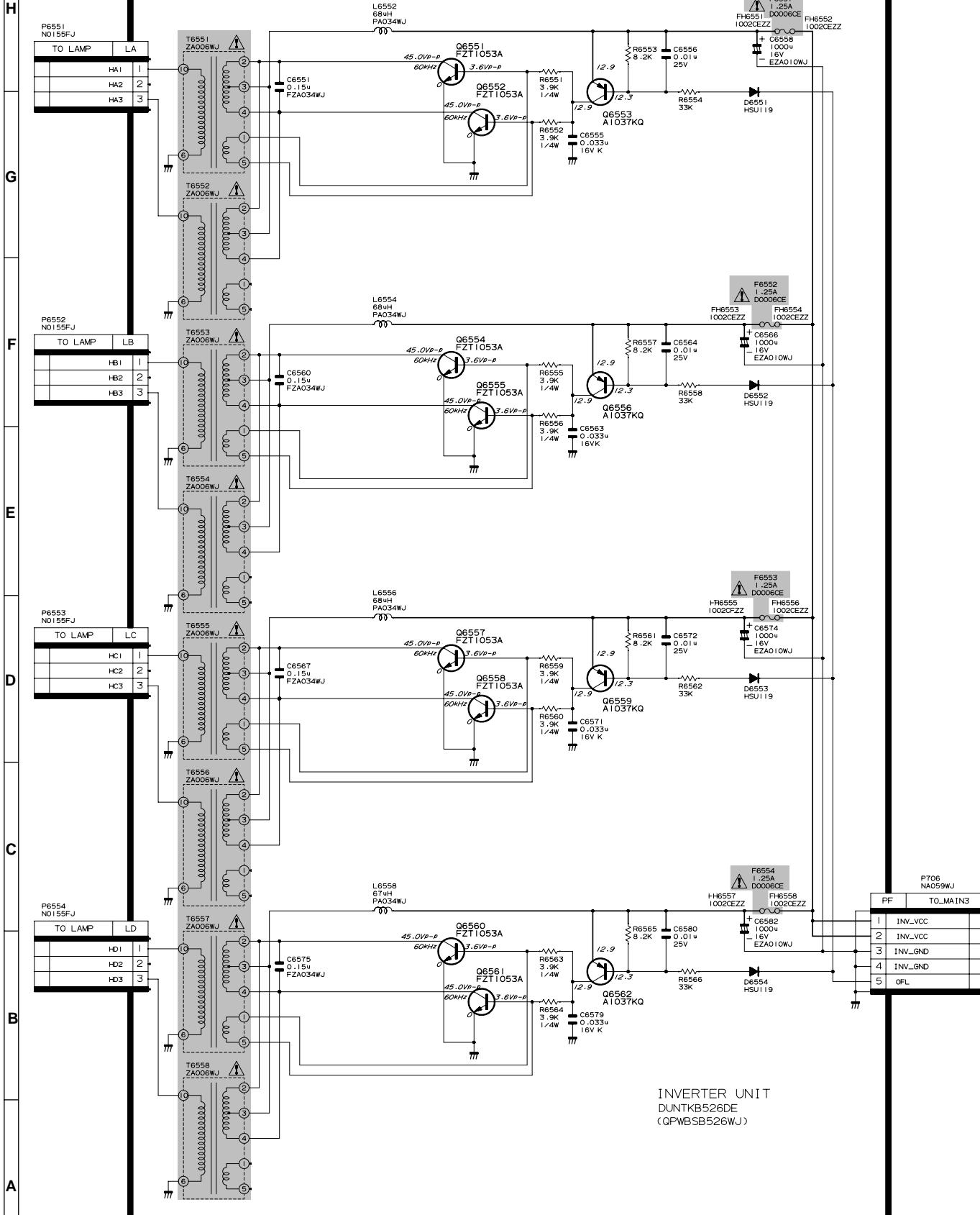
MAIN5



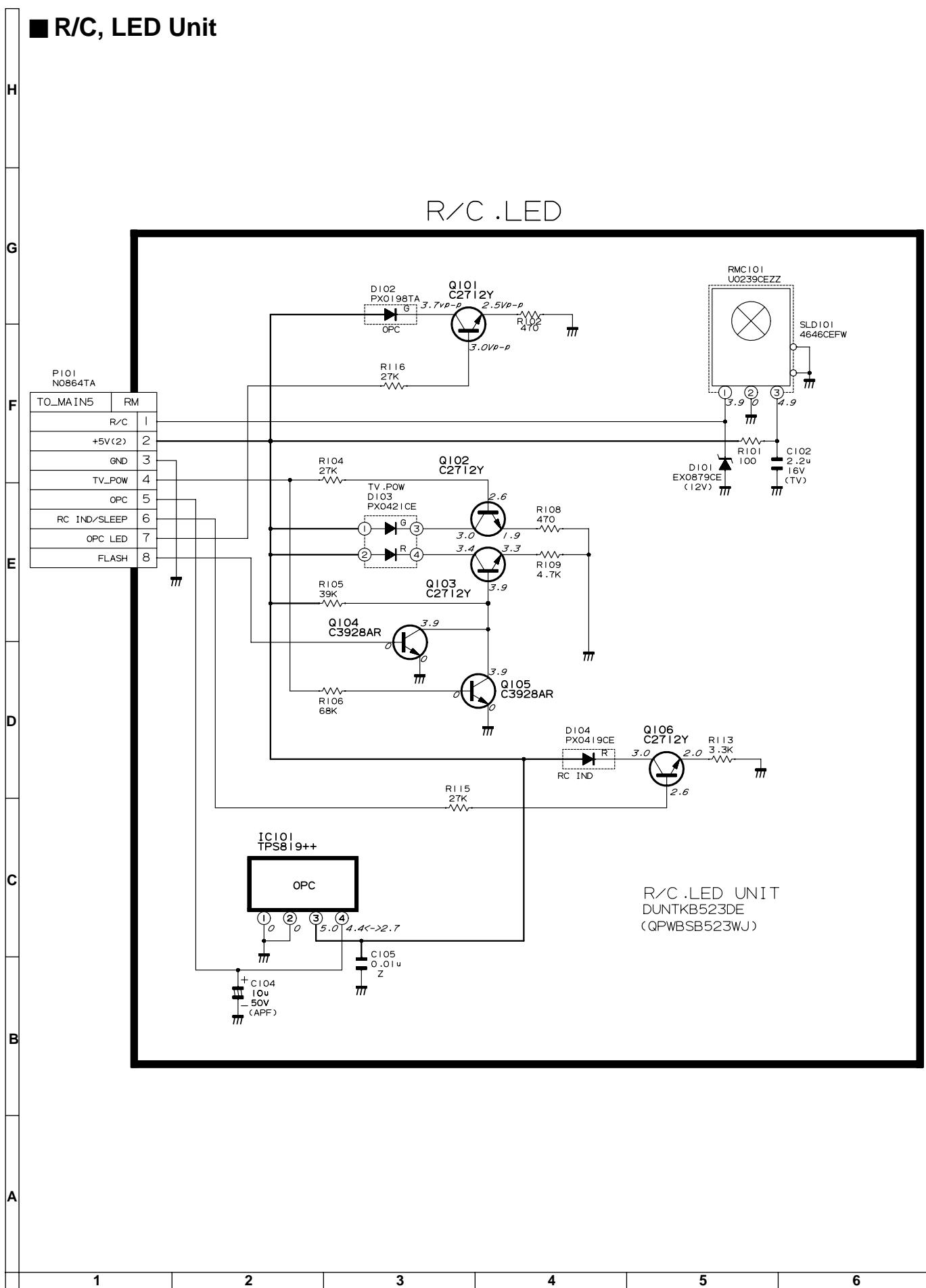


## ■ INVERTER Unit

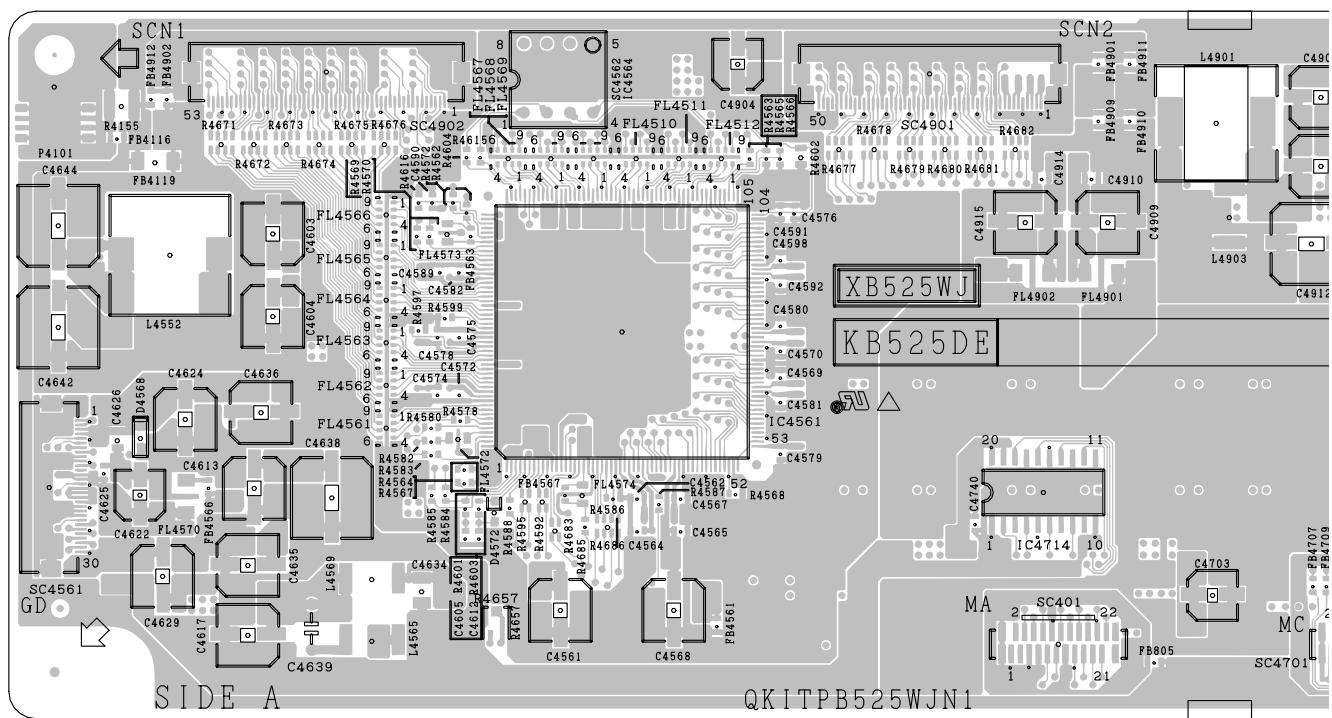
## INVERTER



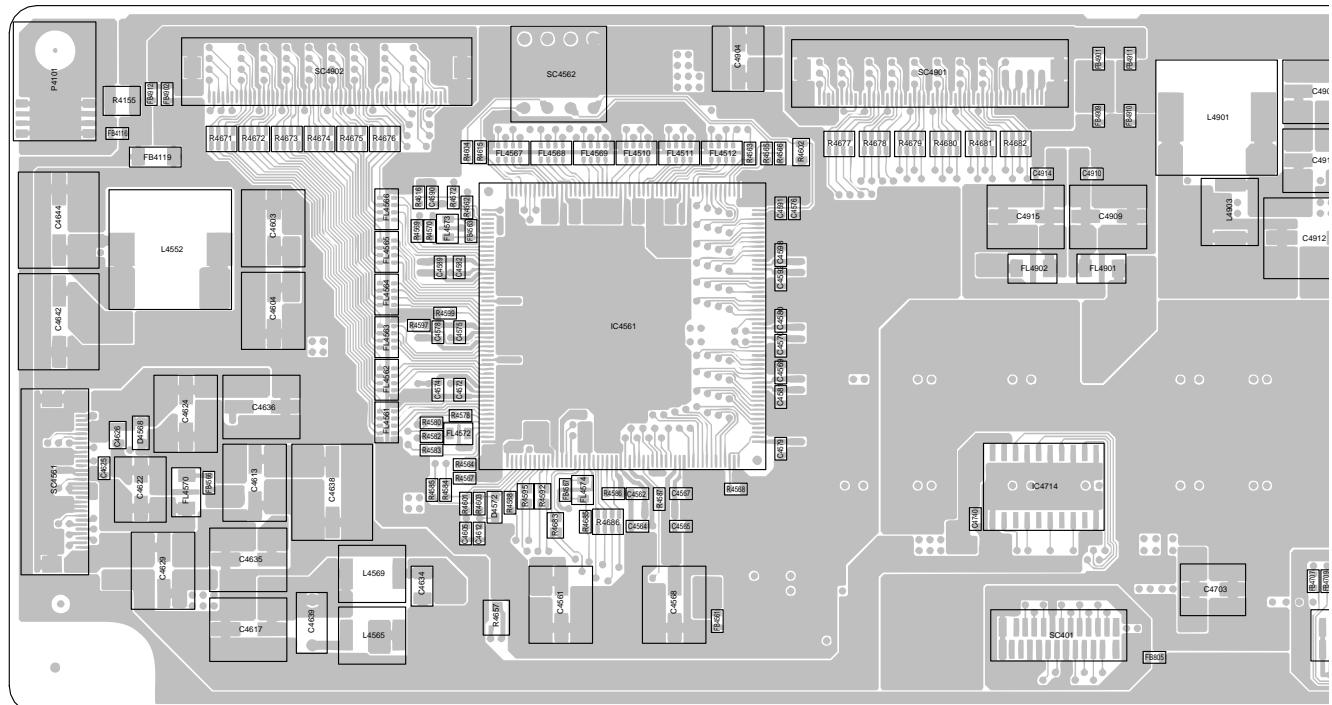
## ■ R/C, LED Unit



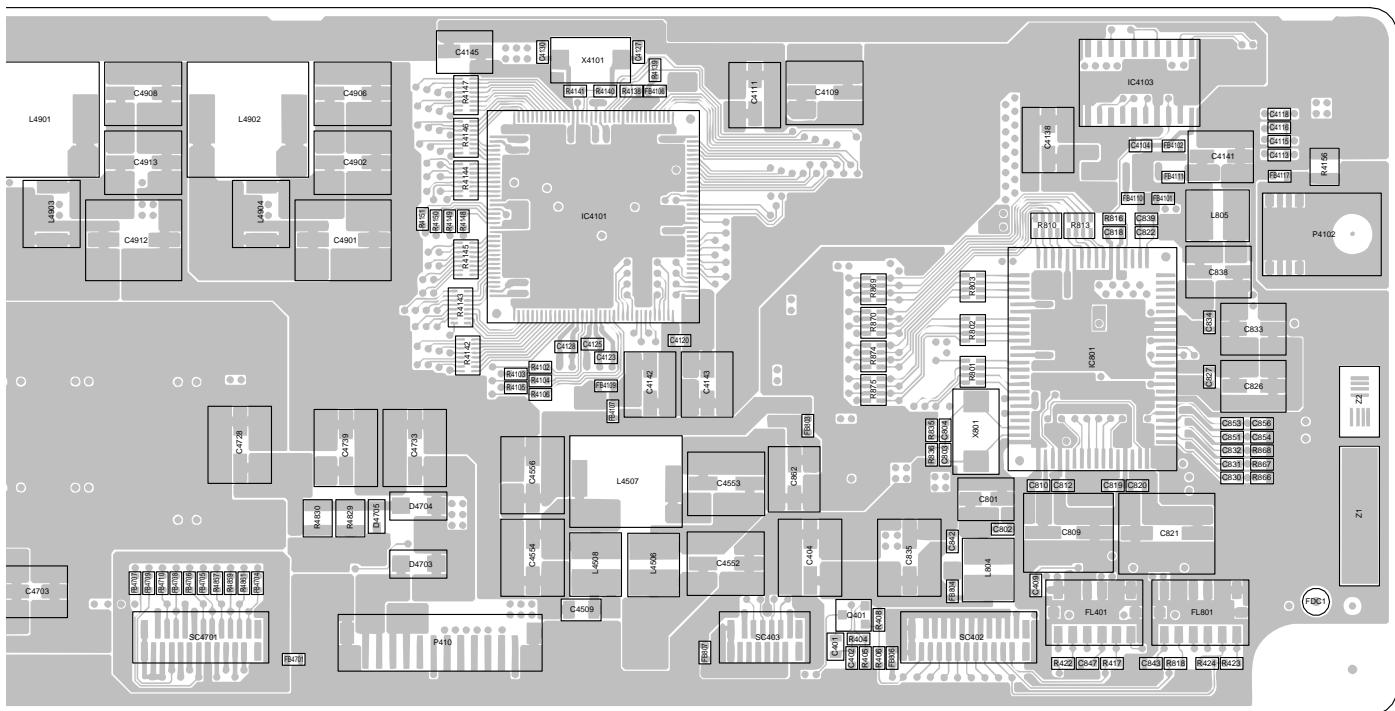
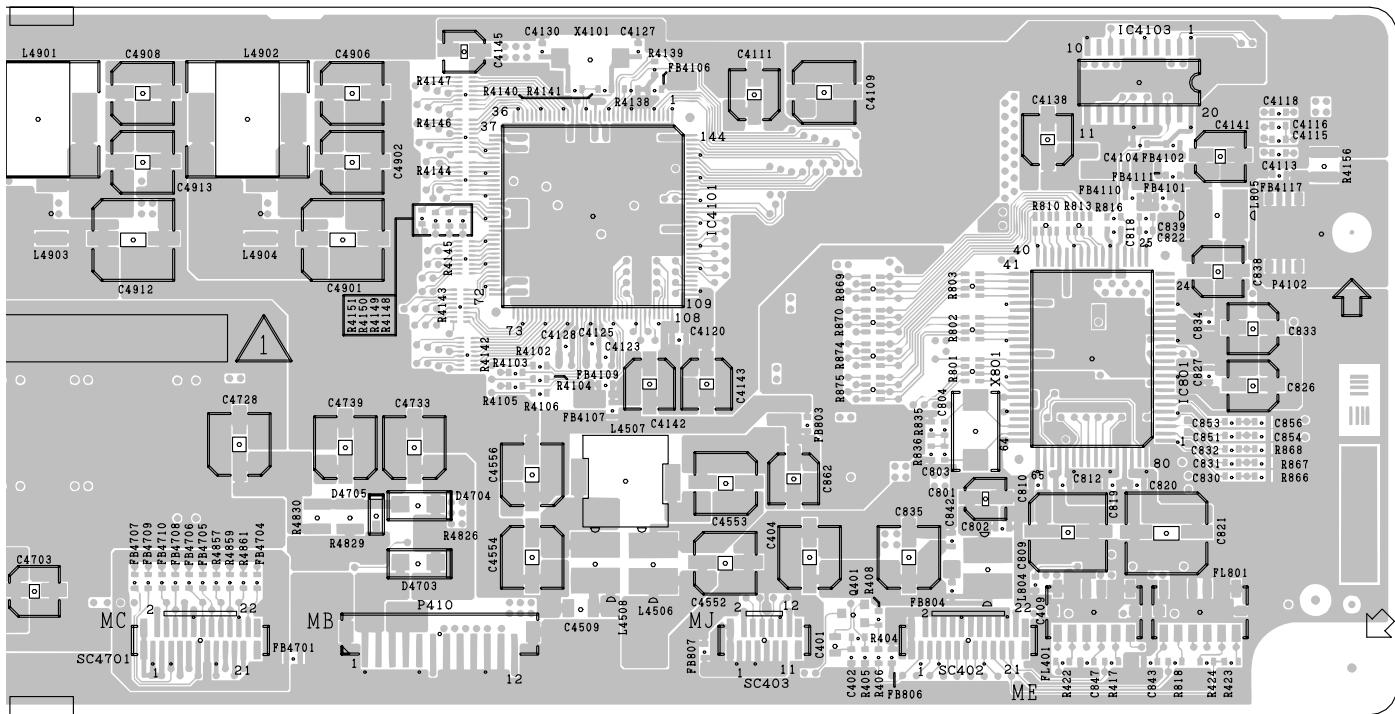
## PRINTED WIRING BOARD ASSEMBLIES



DIGITAL Unit (Side-A)



DIGITAL Unit (Chip Parts Side-A)



H

G

8

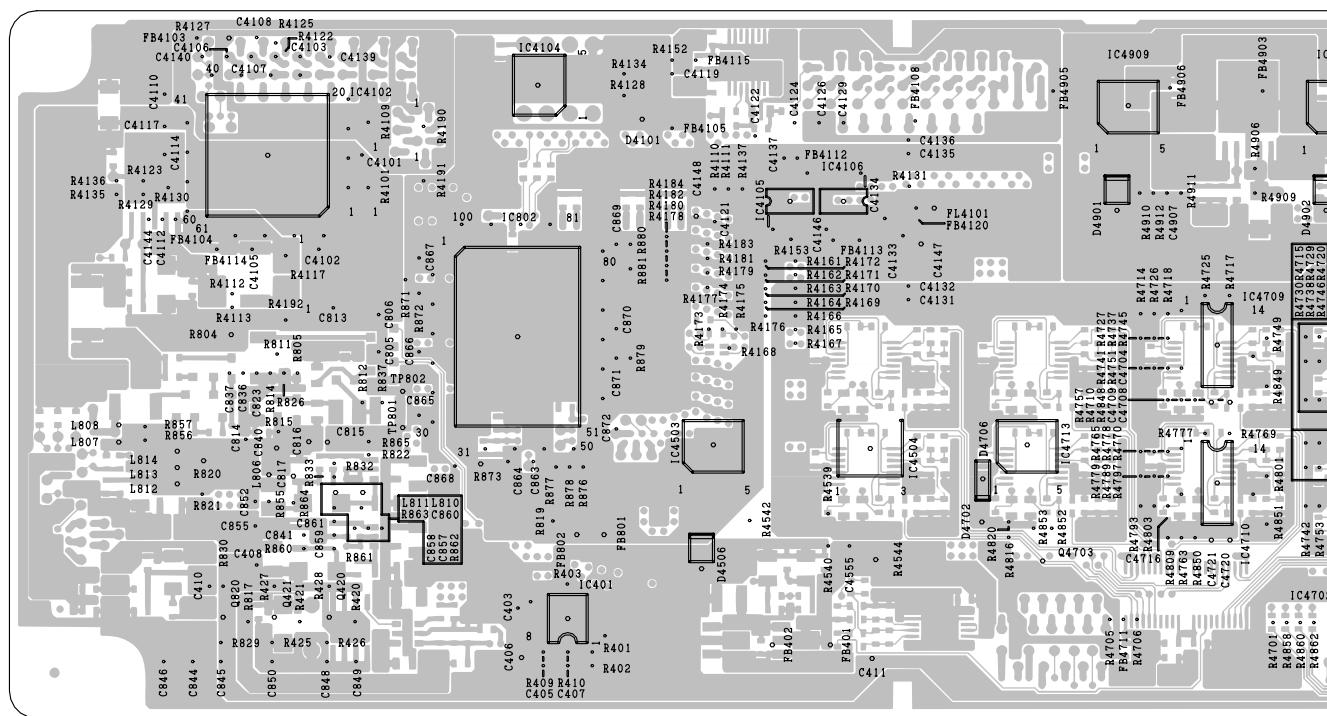
E

D

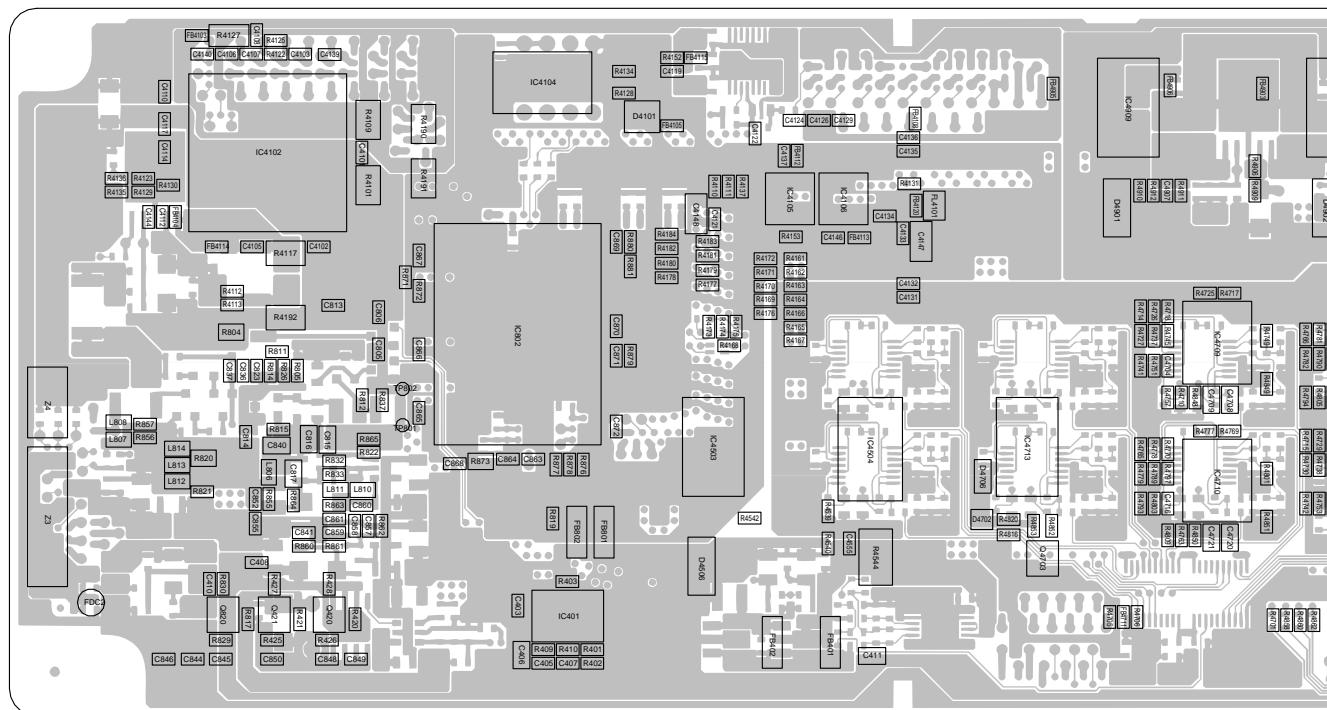
1

B

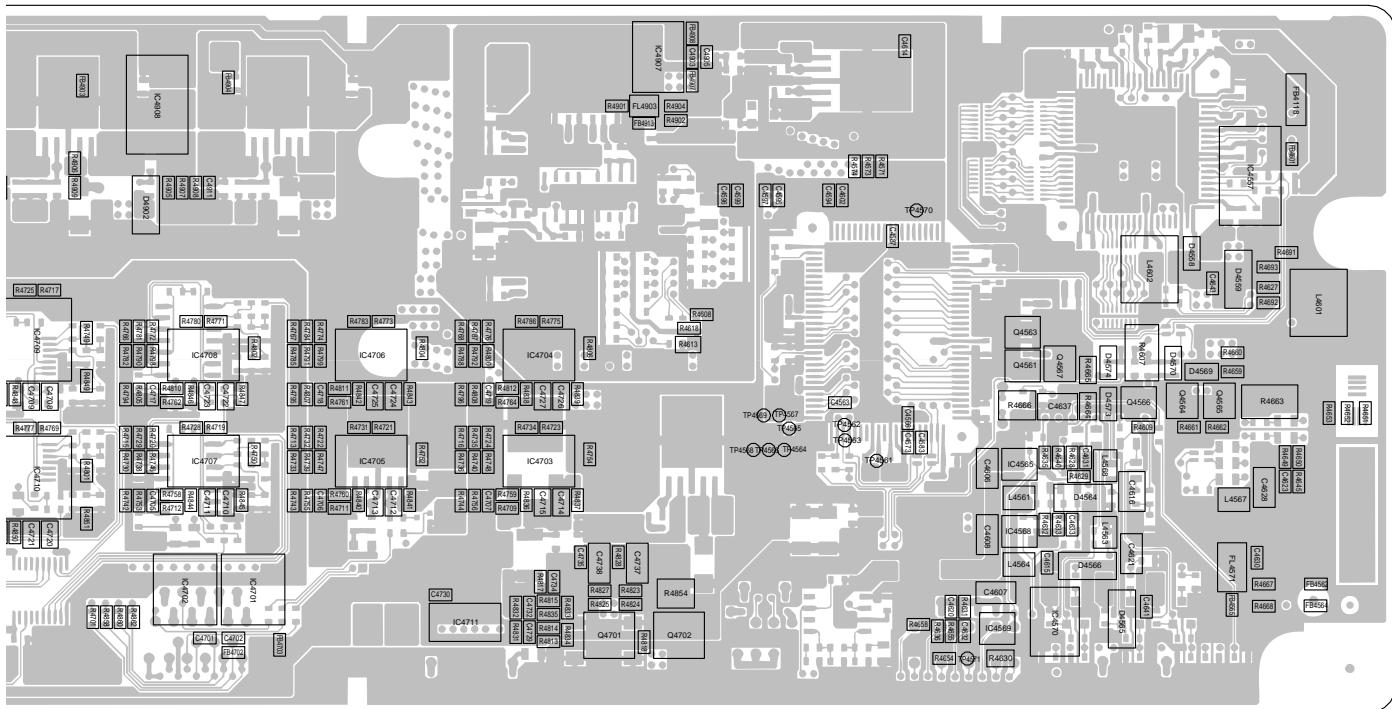
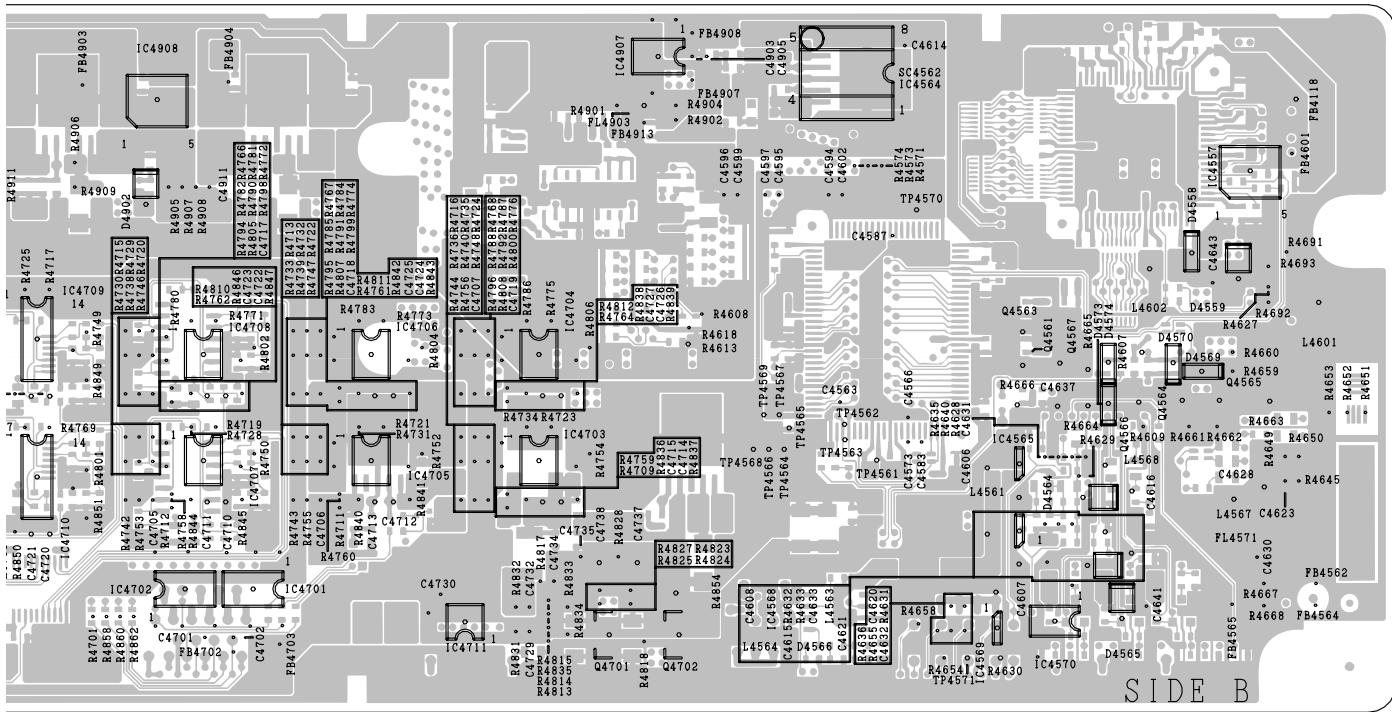
A

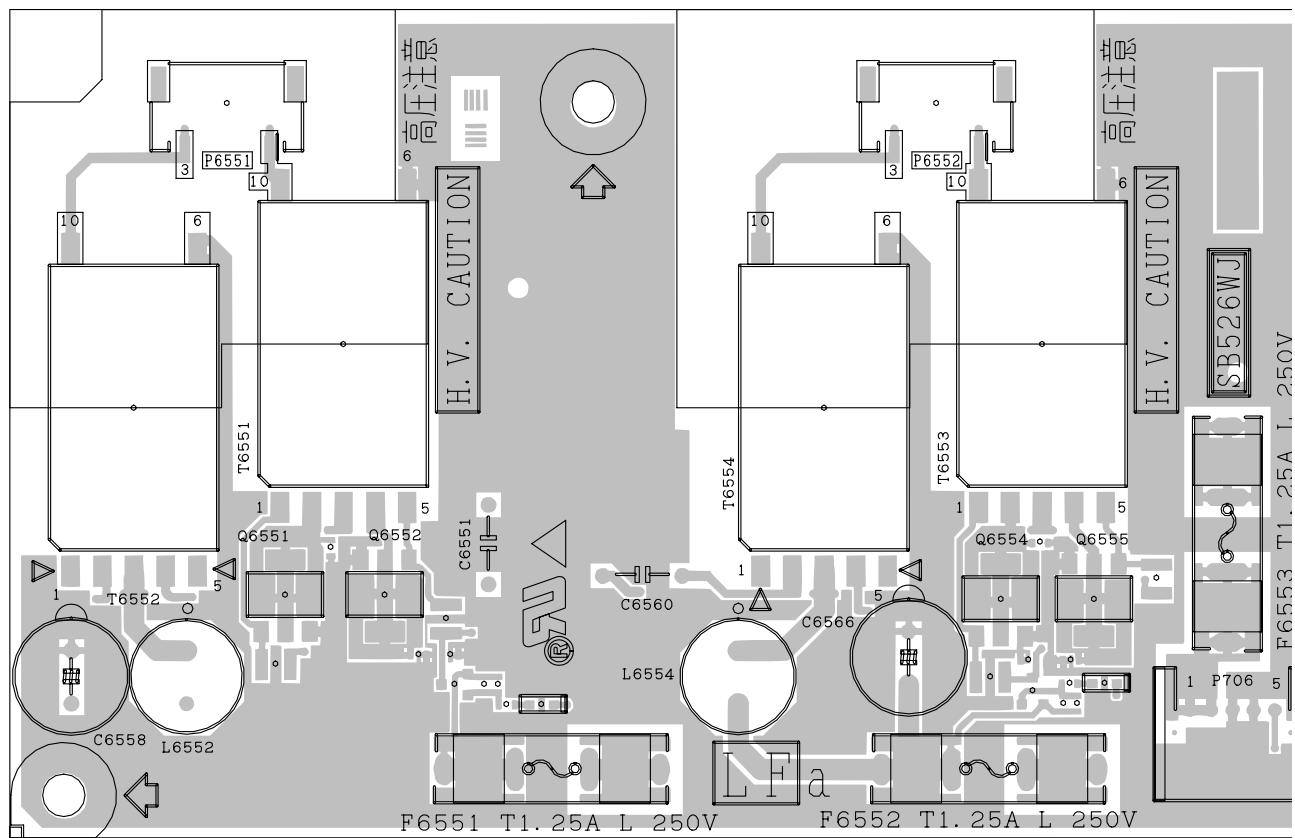


## DIGITAL Unit (Side-B)

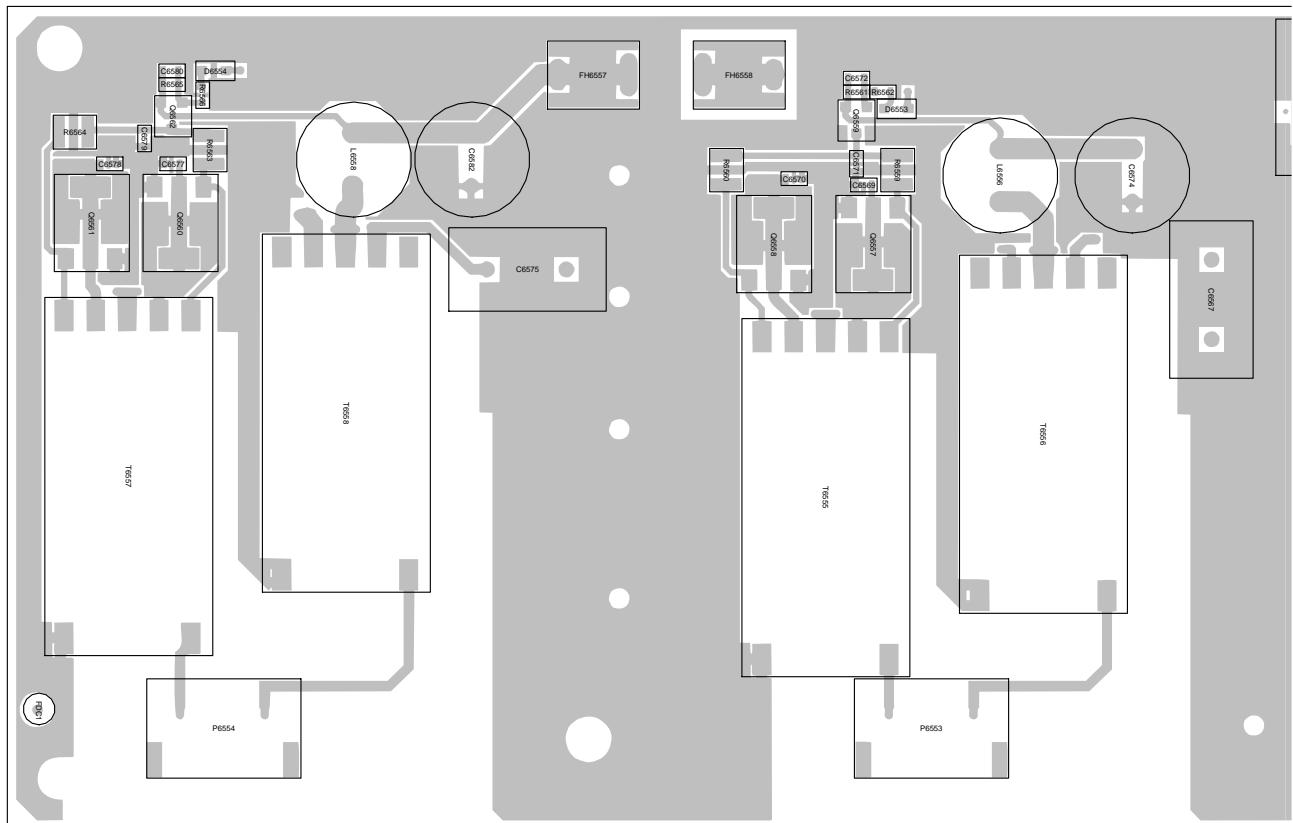


## **DIGITAL Unit(Chip Parts Side-B)**



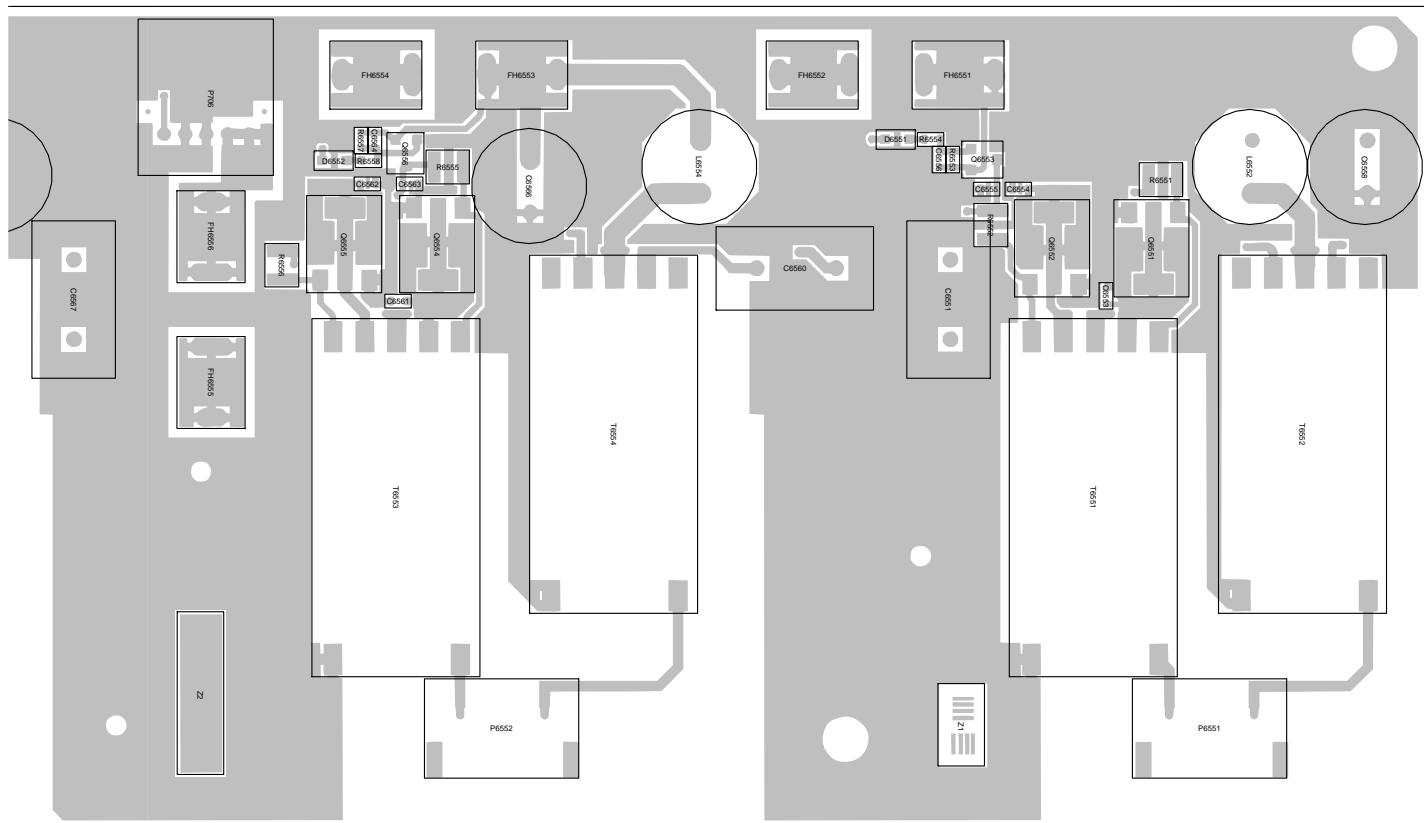
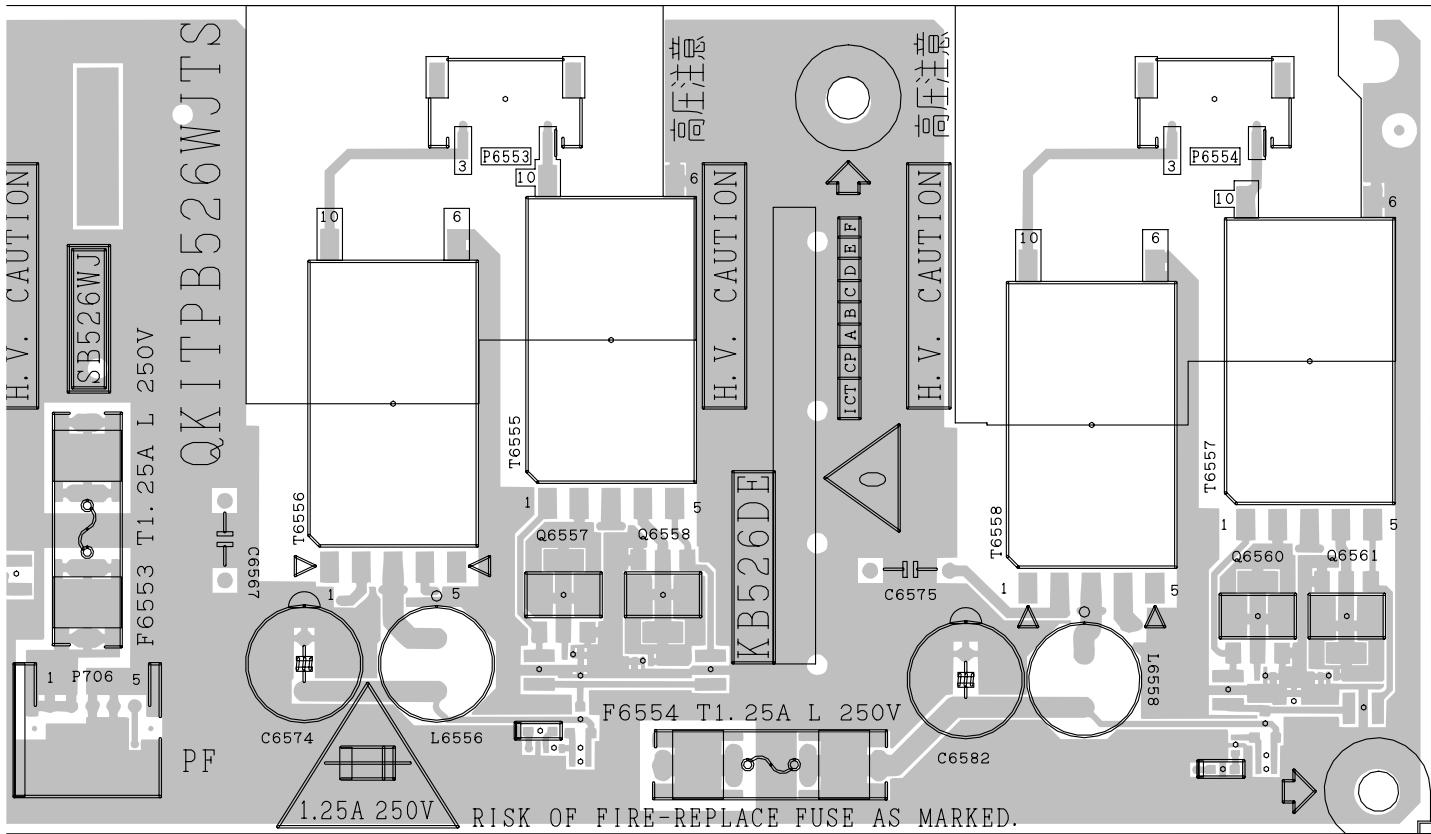


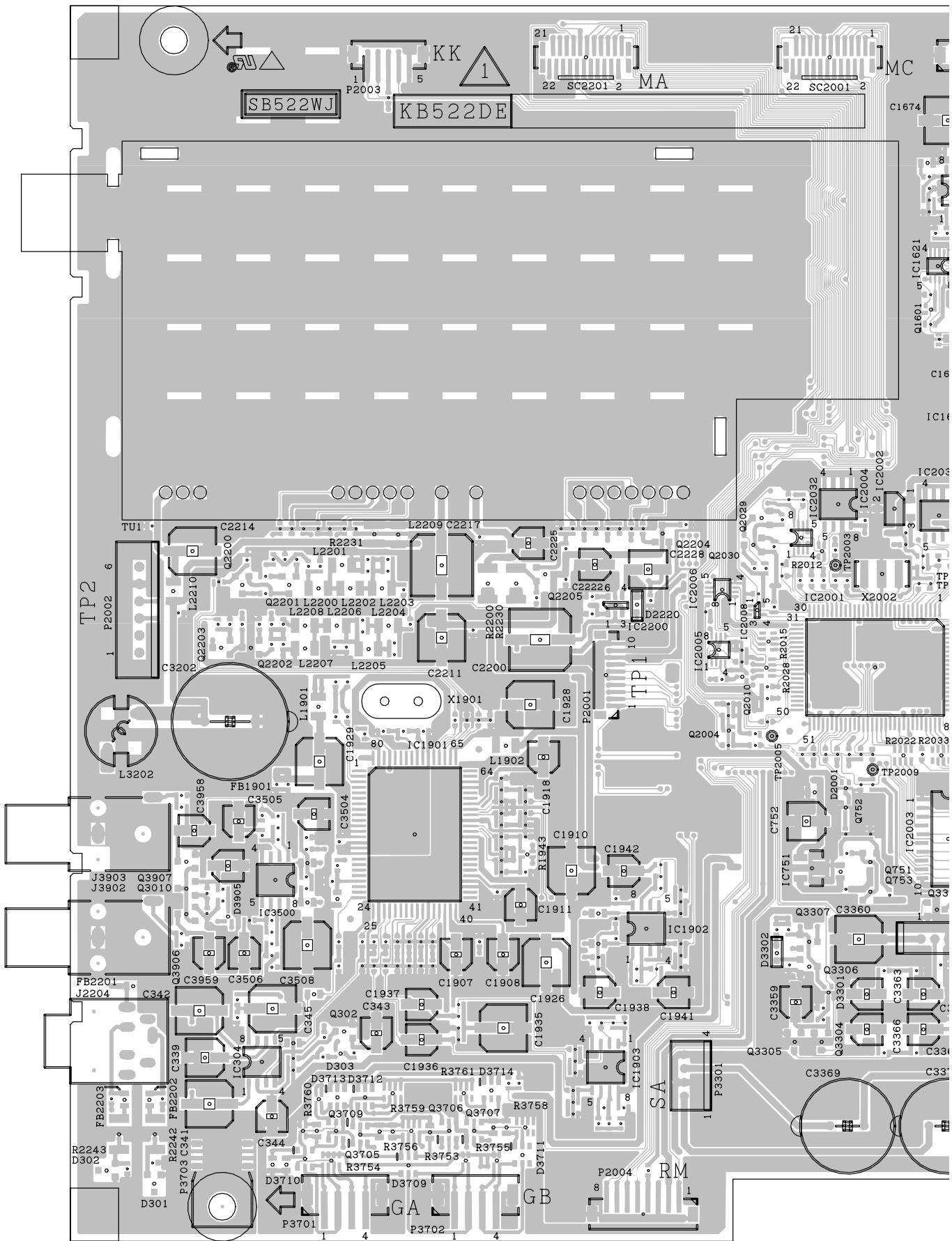
INVERTER Unit (Side-A)



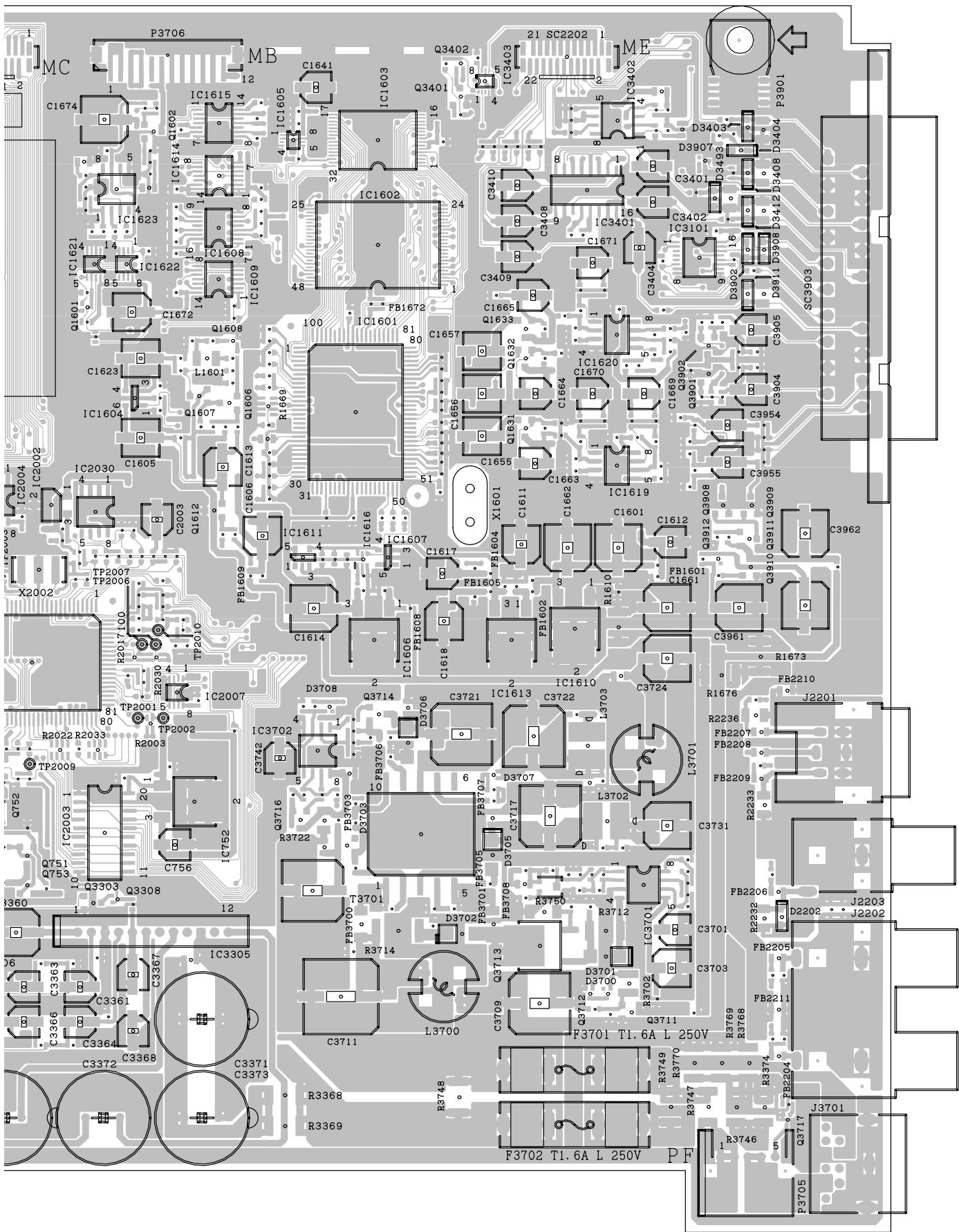
INVERTER Unit (Chip Parts Side-A)

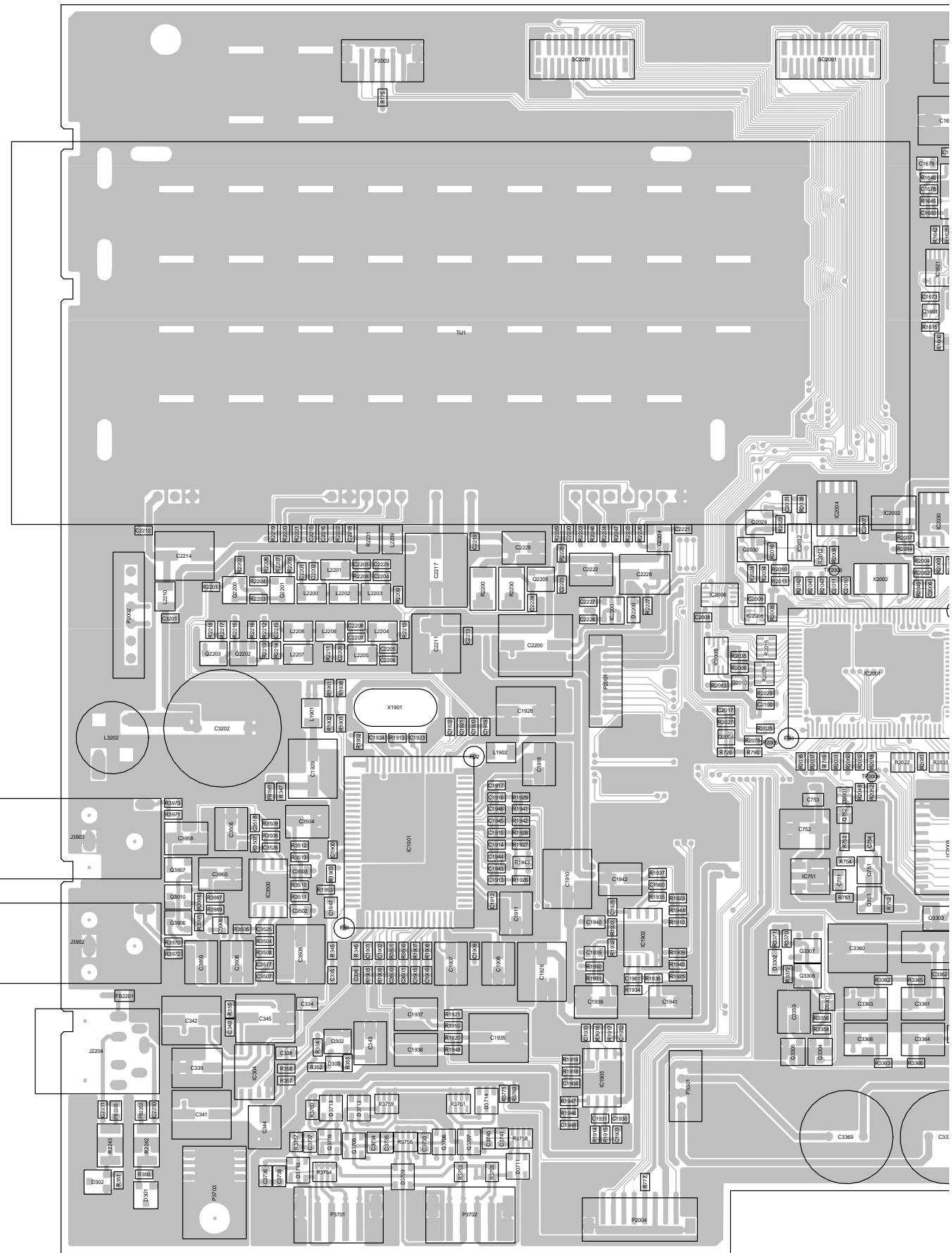
1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----



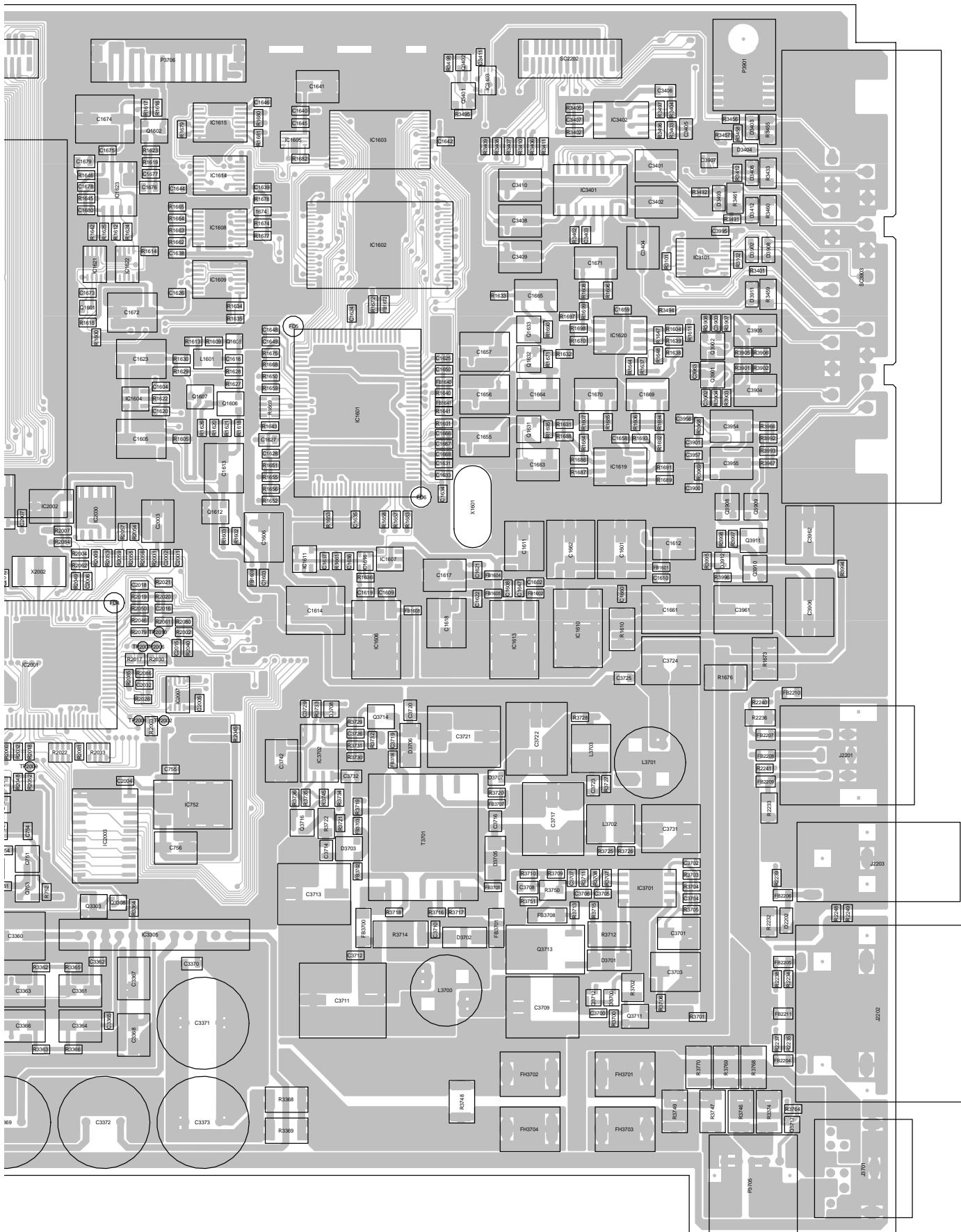


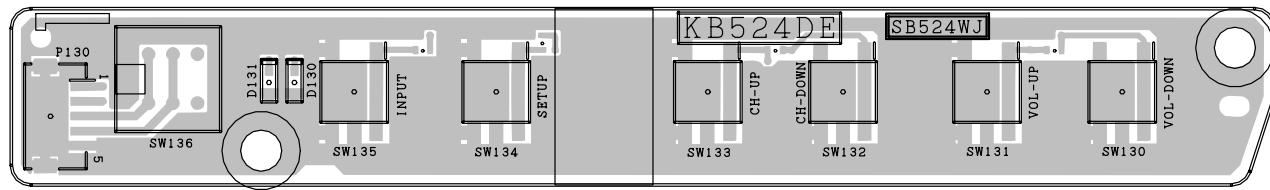
## MAIN Unit (Side-A)



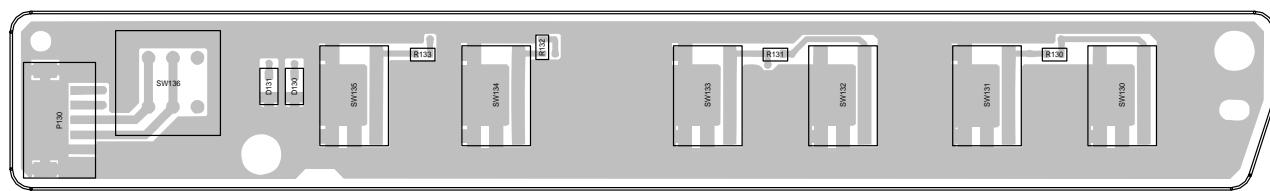


## MAIN Unit (Chip Parts Side-A)

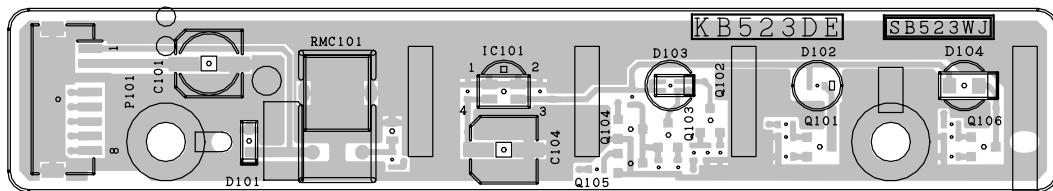




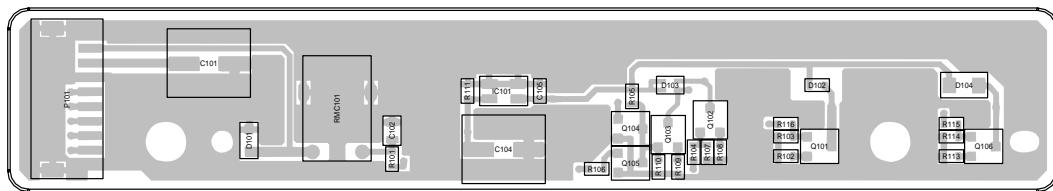
OPERATION Unit (Side-A)



OPERATION Unit (Chip Parts Side-A)



R/C, LED Unit (Side-A)



R/C, LED Unit (Chip Parts Side-A)

# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  $\triangle$  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER	2. REF. NO.
3. PART NO.	4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTKB522DE01	—	MAIN Unit	—
DUNTKB523DE01	—	R/C, LED Unit	—
DUNTKB524DE01	—	OPERATION Unit	—
DUNTKB525FE01	—	DIGITAL Unit	—
DUNTKB526FE01	—	INVERTER Unit	—

## LCD PANEL

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

RLCDTA011WJZZ J 22" LCD Panel Unit EM

## DUNTKB522DE01 MAIN UNIT

### TUNER

NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

$\triangle$  TU1 VTUVT4T5FD531 J Tuner BL

### INTEGRATED CIRCUITS

IC304	VHiBH3543F+-1Y	J BH3543F-E2	AE
IC751	VHiAN77L05M-1Y	J AN77L05M-E1	AG
IC752	VHiBA033FP-/1Y	J BA033FP-E2	AG
IC1601	VHiSDA5550M-1Q	J SDA5550M	AZ
IC1602	RH-iXA134WJN3Q	J I.C.	AW
IC1603	VHi62S8308X-1Q	J A62S8308X-70SI	AY
IC1604	VHiMM1501XN-1Y	J MM1501XNRE	AE
IC1605	VHi7WH157FK-1Y	J TC7WH157FK	AF
IC1606	VHiBA033FP-/1Y	J BA033FP-E2	AG
IC1607	VHiPST9121N-1Y	J IC-PST9121NR	AE
IC1608	VHiLVC157T+-1Y	J SN74LVC157APWR	AF
IC1609	VHiLVC04AT+-1Y	J SN74LVC04APWR	AE
IC1610	VHiBA05FP+-1Y	J BA05FP-E2	AF
IC1611	VHiPST9128N-1Y	J IC-PST9128NR	AE
IC1613	VHiBA025FP+/1Y	J BA25BC0FP-E2	AG
IC1614	VHiTCVHC08T-1Y	J TC74VHC08FT	AF
IC1615	VHi74LVX86T-1Y	J TC74LVX86FT	AF
IC1616	VHiNC7SZ58P-1Y	J NC7SZ58P6X	AE
IC1619	VHiTK15420-/1Y	J TK15420MTL	AG
IC1620	VHiTK15420-/1Y	J TK15420MTL	AG
IC1623	VHiBA7046F-/1Y	J BA7046F	AF
IC1901	RH-iX1853BMZZQ	J MSP3410G-QG-B8	BB
IC1902	VHiNJM4560M-1Y	J NJM4560M	AG
IC1903	VHiNJM4560M-1Y	J NJM4560M	AG
IC2001	RH-iXA380WJN1Q	J I.C.	BK
IC2002	VHiPST529JM-1Y	J PST529JMT	AD
IC2003	VHiHHCT244F-1Y	J HD74HCT244FPEL	AE
IC2004	VHiBR2416E2-1Y	J BR24C16F	AK
IC2005	VHiTC7W66U-/1Y	J TC7W66FU	AE
IC2006	VHiSN2G34CT-1Y	J SN74AHC2G34HDC	AD
IC2007	VHiT7WT125U-1Y	J TC7WT125FU	AF
IC2008	VHiT7SET08U-1Y	J TC7SET08FU	AD
IC2030	VHiBR24C32F-1Y	J BR24C32F-E2	AH
IC2032	VHiTC7W66U-/1Y	J TC7W66FU	AE
IC2200	VHiMM1506XN-1Y	J MM1506XNRE	AD
IC3101	VHiBU4053V-/1Y	J BU4053BCFV-E2	AE
IC3305	VHiLA4635A+-1S	J LA4635A	AM
IC3401	VHiMM1231XF1EY	J MM1231XFBE	AF
IC3402	VHiNJM2235M-1Y	J NJM2235M	AE
IC3403	VHi7WH157FK-1Y	J TC7WH157FK	AF
IC3500	VHiNJM4560M-1Y	J NJM4560M	AG
IC3701	VHiNJM2377M-1Y	J NJM2377M	AK
IC3702	VHiNJM2147M-1Y	J NJM2147M-TE1	AF

### TRANSISTORS

Q302	VSDTC144EKA-1Y	J DTC144EKA	AB
Q751	VS2SA1530AR-1Y	J 2SA1530AR	AB
Q752	VSDTC144EE-/1Y	J DTC144EE	AA
Q753	VS2SA1530AR-1Y	J 2SA1530AR	AB
Q1602	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q1606	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q1607	VS2SA1530AR-1Y	J 2SA1530AR	AB
Q1608	VSDTC144TE-/1Y	J DTC144TE	AB
Q1612	VS2SA1530AR-1Y	J 2SA1530AR	AB
Q1631	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q1632	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q1633	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q2004	VSDTC144EE-/1Y	J DTC144EE	AA
Q2010	VSDTC144EE-/1Y	J DTC144EE	AA
Q2029	VSNDS355AN-/1Y	J NDS355AN	AE
Q2030	VSNDS355AN-/1Y	J NDS355AN	AE
Q2200	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q2201	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q2202	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q2203	VS2SC3928AR-1Y	J 2SC3928AR	AB
Q2204	VS2SC3928AR-1Y	J 2SC3928AR	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code					
<b>DUNTKB522DE01</b> <b>MAIN UNIT (Continued)</b>														
Q2205	VS2SC3928AR-1Y	J	2SC3928AR	AB	L2202	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB					
Q3010	VS2SA1530AR-1Y	J	2SA1530AR	AB	L2203	VP-1M3R3JR93NY	J	Peaking 3.3µH	AB					
Q3303	VSDTC144EKA-1Y	J	DTC144EKA	AB	L2204	VP-1M5R6.1R2NY	J	Peaking 5.6µH	AB					
Q3304	VSDTC314TK-1Y	J	DTC314TK	AC	L2205	VP-1M3R3JR93NY	J	Peaking 3.3µH	AB					
Q3305	VSDTC314TK/-1Y	J	DTC314TK	AC	L2206	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB					
Q3306	VS2SC3928AR-1Y	J	2SC3928AR	AB	L2207	VP-1M2R7JR85NY	J	Peaking 2.7µH	AB					
Q3308	VSDTA144EE/-1Y	J	DTA144EE	AA	L2208	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB					
Q3401	VS2SC3928AR-1Y	J	2SC3928AR	AB	L2210	VP-1M100J1R6NY	J	Peaking 10µH	AB					
Q3402	VSDTA144EE/-1Y	J	DTA144EE	AA	L3202	RCiLPA027WJZZ	J	Coil	AD					
Q3705	VSUPA606T//1Y	J	UPA606T	AD	L3700	RCiLPA026WJZZ	J	Coil	AD					
Q3706	VSUPA606T//1Y	J	UPA606T	AD	L3701	RCiLPA026WJZZ	J	Coil	AD					
Q3707	VSUPA606T//1Y	J	UPA606T	AD	L3702	RCiLC0055CEZZY	J	Coil	AD					
Q3709	VSUPA606T//1Y	J	UPA606T	AD	L3703	RCiLC0055CEZZY	J	Coil	AD					
Q3711	VSFMMT718//1Y	J	FMMT718	AE	<b>TRANSISTOR</b>									
Q3712	VSDTC144EE/-1Y	J	DTC144EE	AA	T3701	RTRNWA006WJZZY	J	Transformer	AM					
Q3713	VS2SK2503//1Y	J	2SK2503	AE	<b>CONTROL</b>									
Q3714	VS2SC3928AR-1Y	J	2SC3928AR	AB	R3750	RVR-M0111CEZZY	J	1k(B) +13V Adj.	AC					
Q3716	VS2SC3928AR-1Y	J	2SC3928AR	AB	<b>CAPACITORS</b>									
Q3717	VSDTC114YE/-1Y	J	DTC114YE	AB	C334	VCKYTV1CF105ZY	J	1 16V Ceramic	AB					
Q3901	VS2SC3928AR-1Y	J	2SC3928AR	AB	C335	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA					
Q3902	VS2SC3928AR-1Y	J	2SC3928AR	AB	C336	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA					
Q3906	VSDTC314TK-1Y	J	DTC314TK	AC	C338	VCKYTV1CF105ZY	J	1 16V Ceramic	AB					
Q3907	VSDTC314TK/-1Y	J	DTC314TK	AC	C339	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB					
Q3908	VSDTC314TK/-1Y	J	DTC314TK	AC	C340	RC-KZ1025CEZZY	J	1 10V Ceramic	AB					
Q3909	VSDTC314TK-1Y	J	DTC314TK	AC	C341	VCEAPF1CW476MY	J	47 16V Electrolytic	AC					
Q3910	VS2SC3928AR-1Y	J	2SC3928AR	AB	C342	VCEAPF1CW476MY	J	47 16V Electrolytic	AC					
Q3911	VS2SA1530AR-1Y	J	2SA1530AR	AB	C343	VCEAPF1HW225MY	J	2.2 50V Electrolytic	AB					
<b>DIODES</b>														
D301	VHDMA3120WA-1Y	J	Diode	AD	C344	VCEAPF1CW106MY	J	10 16V Electrolytic	AB					
D302	VHDMA3120WA-1Y	J	Diode	AD	C345	VCEAPF1CW107MY	J	100 16V Electrolytic	AC					
D303	VHDDAN222//1Y	J	Diode	AA	C751	VCKYTV1CF105ZY	J	1 16V Ceramic	AB					
D2001	VHDDAN222//1Y	J	Diode	AA	C752	VCEAPF1CN226MY	J	22 16V Electrolytic	AD					
D2200	RH-EX1264CEZZY	J	Zener Diode, 9V	AB	C753	VCKYTV1CF105ZY	J	1 16V Ceramic	AB					
D2202	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C755	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB					
D3301	VHDDAN222//1Y	J	Diode	AA	C756	VCEAPF0JN226MY	J	22 6.3V Electrolytic	AD					
D3302	RH-EX1396CEZZY	J	Zener Diode, 6.8V	AB	C1601	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC					
D3403	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1602	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3404	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1603	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA					
D3408	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1604	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA					
D3412	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1605	VCEAPF0JW226MY	J	22 6.3V Elect. (N.P)	AD					
D3493	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1606	VCEAPF1EW106MY	J	10 25V Electrolytic	AC					
D3700	VHDDAN222//1Y	J	Diode	AA	C1608	RC-KZ1025CEZZY	J	1 10V Ceramic	AB					
D3702	VHDSFPB56//2EY	J	Diode	AC	C1609	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB					
D3703	VHD1SS250//1EY	J	Diode	AB	C1610	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3705	VHDSFPB74//2EY	J	Diode	AD	C1611	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB					
D3706	VHDSFPB74//2EY	J	Diode	AD	C1612	VCEAPF1CW106MY	J	10 16V Electrolytic	AB					
D3707	VHDDAN222//1Y	J	Diode	AA	C1613	VCEAPF1CW226MY	J	22 16V Electrolytic	AB					
D3708	VHDDAN222//1Y	J	Diode	AA	C1614	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC					
D3709	VHDIMN10///-1Y	J	Diode	AB	C1616	VCCCCY1H181JY	J	180p 50V Ceramic	AA					
D3710	VHDIMN10///-1Y	J	Diode	AB	C1617	VCEAPF0JW226MY	J	22 6.3V Electrolytic	AB					
D3711	VHDIMN10///-1Y	J	Diode	AB	C1618	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB					
D3712	VHDIMN10///-1Y	J	Diode	AB	C1619	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3713	VHDIMN10///-1Y	J	Diode	AB	C1621	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3714	VHDIMN10///-1Y	J	Diode	AB	C1622	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3902	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB	C1623	VCEAPF0JW226MY	J	22 6.3V Elect. (N.P)	AD					
D3905	VHDDAN222//1Y	J	Diode	AA	C1624	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3908	RH-EX1247CEZZY	J	Zener Diode, 5.6V	AB	C1625	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3911	RH-EX1271CEZZY	J	Zener Diode, 12V	AB	C1626	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
D3912	VHDDAN222//1Y	J	Diode	AA	C1627	VCKYTV1CF105ZY	J	1 16V Ceramic	AB					
<b>PACKAGED CIRCUITS</b>														
X1601	RCRSB0202GEZZ+	J	Crystal, 6MHz	AG	C1628	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
X1901	RCRSB0250GEZZ+	J	Crystal, 18.432MHz	AG	C1631	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
X2002	RFILZ0169TAZZY	J	Filter	AD	C1633	VCCCCY1H330JY	J	33p 50V Ceramic	AA					
<b>COILS</b>														
L1601	VP-1M270J3R8NY	J	Peaking 27µH	AC	C1634	VCCCCY1H330JY	J	33p 50V Ceramic	AA					
L1901	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB	C1635	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
L1902	VP-1M101J7R7NY	J	Peaking 100µH	AC	C1636	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
L2200	VP-1M4R7J1R2NY	J	Peaking 4.7µH	AB	C1637	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
L2201	VP-1M2R7JR85NY	J	Peaking 2.7µH	AB	C1638	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1639	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1640	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1641	VCEAPF0JW226MY	J	22 6.3V Electrolytic	AB					
					C1642	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1644	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1645	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					
					C1646	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA					

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

**DUNTKB522DE01**  
**MAIN UNIT (Continued)**

C1647	VCKYCY1CF334ZY	J 0.33	16V Ceramic	AB
C1648	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1649	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1650	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1655	VCE9PF0JN226MY	J 22	6.3V Elect. (N.P)	AD
C1656	VCE9PF0JN226MY	J 22	6.3V Elect. (N.P)	AD
C1657	VCE9PF0JN226MY	J 22	6.3V Elect. (N.P)	AD
C1658	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1659	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1660	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1661	VCEAPF1CW107MY	J 100	16V Electrolytic	AC
C1662	VCEAPF0JW107MY	J 100	6.3V Electrolytic	AC
C1663	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1664	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1665	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1666	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1667	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1668	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1674	VCEAPF1AW476MY	J 47	10V Electrolytic	AB
C1675	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1676	VCKYTV1AB105KY	J 1	10V Ceramic	AC
C1677	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1678	VCKYCY1HB222KY	J 2200p	50V Ceramic	AA
C1679	VCKYTV1AB105KY	J 1	10V Ceramic	AC
C1680	VCCCCY1HH101JY	J 100p	50V Ceramic	AA
C1900	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1901	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1902	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1903	VCKYCY1HB472KY	J 4700p	50V Ceramic	AA
C1904	VCKYCY1HB223KY	J 0.022	50V Ceramic	AA
C1905	VCKYCY1HB682KY	J 6800p	50V Ceramic	AA
C1906	VCKYCY1HB682KY	J 6800p	50V Ceramic	AA
C1907	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1908	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1909	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1910	VCEASH1CN157MY	J 150	16V Electrolytic	AC
C1911	VCEAPF1HW335MY	J 3.3	50V Electrolytic	AC
C1912	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1913	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1914	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1915	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1916	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1917	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1918	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1919	RC-KZ1025CEZZ	J 1	10V Ceramic	AB
C1920	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1921	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1922	VCCCCY1HH560JY	J 56p	50V Ceramic	AB
C1923	VCCCCY1HH5R0CY	J 5.0p	50V Ceramic	AA
C1924	VCCCCY1HH5R0CY	J 5.0p	50V Ceramic	AA
C1925	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1926	VCEASH1CN157MY	J 150	16V Electrolytic	AC
C1928	VCEASH1CN157MY	J 150	16V Electrolytic	AC
C1929	VCEASH1CN157MY	J 150	16V Electrolytic	AC
C1930	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA
C1931	VCKYCY1HB681KY	J 680p	50V Ceramic	AA
C1932	VCKYCY1HB681KY	J 680p	50V Ceramic	AA
C1933	VCKYCY1HB472KY	J 4700p	50V Ceramic	AA
C1935	RC-EZ1339CEZZ	J 220	16V Electrolytic	AD
C1936	VCEAPF1HW225MY	J 2.2	50V Electrolytic	AB
C1937	VCEAPF1HW225MY	J 2.2	50V Electrolytic	AB
C1938	VCEAPF1CW106MY	J 10	16V Electrolytic	AB
C1939	VCKYTV1CF105ZY	J 1	16V Ceramic	AB
C1940	VCKYTV1CF105ZY	J 1	16V Ceramic	AB
C1941	VCEAPF1EW475MY	J 4.7	25V Electrolytic	AB
C1942	VCEAPF1EW475MY	J 4.7	25V Electrolytic	AB
C1943	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1944	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1945	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1946	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA
C1947	VCKYTV1CF105ZY	J 1	16V Ceramic	AB
C1948	VCKYCY1HB223KY	J 0.022	50V Ceramic	

Ref. No.	Part No.	★	Description	Code
C1960	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C1961	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2004	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2005	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2006	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2007	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2008	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2009	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2010	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2015	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2017	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2031	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2032	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2100	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2200	VCEASH1CN477MY	J	470 16V Electrolytic	AD
C2201	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2202	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C2203	VCCCCY1HH560JY	J	56p 50V Ceramic	AB
C2204	VCCCCY1HH271JY	J	270p 50V Ceramic	AA
C2205	VCCCCY1HH121JY	J	120p 50V Ceramic	AA
C2206	VCCCCY1HH820JY	J	82p 50V Ceramic	AA
C2207	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C2208	VCCCCY1HH151JY	J	150p 50V Ceramic	AA
C2209	VCCCCY1HH121JY	J	120p 50V Ceramic	AA
C2210	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2211	VCEAPF1CW476MY	J	47 16V Electrolytic	AC
C2212	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2213	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2214	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC
C2215	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2216	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C2217	VCEASH0JN477MY	J	470 6.3V Electrolytic	AD
C2218	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2219	VCKYCY1HF103ZY	J	0.01 50V Ceramic	AA
C2220	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C2221	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2222	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C2223	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2224	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C2225	VCEAPF1HW105MY	J	1 50V Electrolytic	AB
C2226	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2227	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C2228	VCE9PF1CW106MY	J	10 16V Elect. (N.P)	AC
C2229	VCCCCY1HH331JY	J	330p 50V Ceramic	AA
C2230	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C2231	VCKYCY1HB222KY	J	2200p 50V Ceramic	AA
C3201	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3202	RC-EZ1351CEZZ	J	3300 6.3V Electrolytic	AF
C3359	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3360	VCEAPF1CW107MY	J	100 16V Electrolytic	AC
C3361	VCEAPF1HW105MY	J	1 50V Electrolytic	AB
C3362	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C3363	VCEAPF1HW225MY	J	2.2 50V Electrolytic	AB
C3364	VCEAPF1HW105MY	J	1 50V Electrolytic	AB
C3365	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C3366	VCEAPF1HW225MY	J	2.2 50V Electrolytic	AB
C3367	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3368	VCEAPF1CW106MY	J	10 16V Electrolytic	AB
C3369	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3370	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C3371	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3372	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3373	RC-EZ1274CEZZ	J	1000 16V Electrolytic	AD
C3401	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3402	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3403	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3404	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3405	VCKYTV1AB105KY	J	1 10V Ceramic	AC
C3406	VCKYTV1AB105KY	J	1 10V Ceramic	AC
C3407	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3408	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3409	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3410	VCEAPF1EW475MY	J	4.7 25V Electrolytic	AB
C3411	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C3500	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA
C3501	VCKYCY1HB682KY	J	6800p 50V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code	
<b>DUNTKB522DE01</b> <b>MAIN UNIT (Continued)</b>										
C3502	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R355	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3503	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R358	VRS-CY1JF123JY	J 12k	1/16W Metal Oxide	AA	
C3504	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R726	VRS-CY1JF1R0JY	J 1	1/16W Metal Oxide	AA	
C3505	VCEAPF1EW475MY	J 4.7	25V Electrolytic	AB	R751	VRS-CY1JF1R0JY	J 1	1/16W Metal Oxide	AA	
C3506	VCEAPF1EW475MY	J 4.7	25V Electrolytic	AB	R752	VRS-CY1JF154JY	J 150k	1/16W Metal Oxide	AA	
C3507	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R753	VRS-CY1JF274JY	J 270k	1/16W Metal Oxide	AA	
C3508	VCEASH1CN157MY	J 150	16V Electrolytic	AC	R775	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3517	VCKYCY1EB223KY	J 0.022	25V Ceramic	AA	R777	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3518	VCKYCY1EB223KY	J 0.022	25V Ceramic	AA	R789	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3525	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R790	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3526	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R1600	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3700	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R1601	VRS-CY1JF221JY	J 220	1/16W Metal Oxide	AA	
C3701	VCEAPF1EW475MY	J 4.7	25V Electrolytic	AB	R1602	VRS-CY1JF202JY	J 2k	1/16W Metal Oxide	AA	
C3702	RC-KZ1025CEZZY	J 1	10V Ceramic	AB	R1603	VRS-CY1JF202JY	J 2k	1/16W Metal Oxide	AA	
C3703	VCEASK1CN226MY	J 22	16V Electrolytic	AD	R1605	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA	
C3704	VCCCCY1HH471JY	J 470p	50V Ceramic	AA	R1606	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA	
C3705	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	R1607	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA	
C3709	VCEASK1CN337MY	J 330	16V Electrolytic	AD	R1608	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA	
C3710	VCKYCY1HB562KY	J 5600p	50V Ceramic	AA	R1609	VRS-CY1JF681JY	J 680	1/16W Metal Oxide	AA	
C3711	VCAAPF1CJ187MY	J 180	16V Electrolytic	AH	R1610	VRS-TX2HF2R2JY	J 2.2	1/2W Metal Oxide	AB	
C3712	VCKYCY1HB562KY	J 5600p	50V Ceramic	AA	R1611	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA	
C3713	VCEASK1HN476MY	J 47	50V Electrolytic	AD	R1613	VRS-CY1JF132JY	J 1.3k	1/16W Metal Oxide	AG	
C3714	VCKYTV1HF104ZY	J 0.1	50V Ceramic	AB	R1616	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3716	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R1617	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3717	VCEASK1CN337MY	J 330	16V Electrolytic	AD	R1618	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3719	VCCCCY1HH181JY	J 180p	50V Ceramic	AA	R1619	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA	
C3720	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R1620	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA	
C3721	VCAAPF0JJ227MY	J 220	6.3V Electrolytic	AG	R1621	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA	
C3722	VCEASK1CN337MY	J 330	16V Electrolytic	AD	R1622	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3723	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R1623	VRS-CY1JF681JY	J 680	1/16W Metal Oxide	AA	
C3724	VCEASK0JN337MY	J 330	6.3V Electrolytic	AC	R1624	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA	
C3725	VCKYTV1CF105ZY	J 1	16V Ceramic	AB	R1625	VRS-CY1JF104JY	J 100k	1/16W Metal Oxide	AA	
C3726	VCKYCY1HF103ZY	J 0.01	50V Ceramic	AA	R1626	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA	
C3729	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R1627	VRS-CY1JF102FY	J 1k	1/16W Metal Oxide	AA	
C3731	VCAAPF1CJ396MY	J 39	16V Electrolytic	AF	R1628	VRS-CY1JF681FY	J 680	1/16W Metal Oxide	AA	
C3732	VCKYTV1HF104ZY	J 0.1	50V Ceramic	AB	R1629	VRS-CY1JF681FY	J 680	1/16W Metal Oxide	AA	
C3733	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1630	VRS-CY1JF102FY	J 1k	1/16W Metal Oxide	AA	
C3734	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1631	VRS-CY1JF682FY	J 6.8k	1/16W Metal Oxide	AA	
C3735	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1632	VRS-CY1JF682FY	J 6.8k	1/16W Metal Oxide	AA	
C3736	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1633	VRS-CY1JF682FY	J 6.8k	1/16W Metal Oxide	AA	
C3737	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1636	VRS-CY1JF333JY	J 33k	1/16W Metal Oxide	AA	
C3738	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1642	VRS-CY1JF333JY	J 33k	1/16W Metal Oxide	AA	
C3740	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1643	VRS-CY1JF333JY	J 33k	1/16W Metal Oxide	AA	
C3741	VCKYTV1EB474KY	J 0.47	25V Ceramic	AC	R1645	VRS-CY1JF474JY	J 470k	1/16W Metal Oxide	AA	
C3742	VCEAPF1HW225MY	J 2.2	50V Electrolytic	AB	R1646	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA	
C3900	VCCCCY1HH221JY	J 220p	50V Ceramic	AA	R1647	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3901	VCCCCY1HH221JY	J 220p	50V Ceramic	AA	R1648	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3902	VCCCCY1HH221JY	J 220p	50V Ceramic	AA	R1653	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3903	VCCCCY1HH221JY	J 220p	50V Ceramic	AA	R1655	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3904	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1656	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3905	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1659	VRS-CY1JF222JY	J 2.2k	1/16W Metal Oxide	AA	
C3906	VCEAPF1CW476MY	J 47	16V Electrolytic	AC	R1661	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA	
C3954	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1662	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3955	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1663	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3956	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R1664	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3957	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R1665	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA	
C3958	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1668	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA	
C3959	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1669	VRS-CB1JF332JY	J 3.3k	1/16W Metal Oxide	AC	
C3960	VCEAPF1CW106MY	J 10	16V Electrolytic	AB	R1670	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA	
C3961	VCEAPF1CW476MY	J 47	16V Electrolytic	AC	R1671	VRS-CY1JF183FY	J 18k	1/16W Metal Oxide	AA	
C3962	VCEAPF1CW476MY	J 47	16V Electrolytic	AC	R1673	VRS-TX2HF120JY	J 12	1/2W Metal Oxide	AA	
C3963	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R1675	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA	
C3995	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R1676	VRS-TX2HF120JY	J 12	1/2W Metal Oxide	AA	
<b>RESISTORS</b>										
R345	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	R1683	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R346	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	R1684	VRS-CY1JF123FY	J 12k	1/16W Metal Oxide	AA
R347	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	R1686	VRS-CY1JF562FY	J 5.6k	1/16W Metal Oxide	AA
R350	VRS-CY1JF392JY	J 3.9k	1/16W	Metal Oxide	AA	R1687	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R351	VRS-CY1JF392JY	J 3.9k	1/16W	Metal Oxide	AA	R1688	VRS-CY1JF223FY	J 22k	1/16W Metal Oxide	AA
R353	VRS-CY1JF102JY	J 1k	1/16W	Metal Oxide	AA	R1689	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R354	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA	R1690	VRS-CY1JF183FY	J 18k	1/16W Metal Oxide	AA
						R1691	VRS-CY1JF562FY	J 5.6k	1/16W Metal Oxide	AA
						R1692	VRS-CY1JF123FY	J 12k	1/16W Metal Oxide	AA
						R1693	VRS-CY1JF223FY	J 22k	1/16W Metal Oxide	AA
						R1695	VRS-CY1JF183FY	J 18k	1/16W Metal Oxide	AA
						R1697	VRS-CY1JF223FY	J 22k	1/16W Metal Oxide	AA
						R1698	VRS-CY1JF562FY	J 5.6k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
<b>DUNTKB522DE01</b> <b>MAIN UNIT (Continued)</b>				
R1699	VRS-CY1JF123FY	J 12k	1/16W Metal Oxide	AA
R1901	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R1902	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R1903	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R1905	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R1906	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R1907	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1908	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1913	VRS-CY1JF105JY	J 1M	1/16W Metal Oxide	AA
R1914	VRS-CY1JF113FY	J 11k	1/16W Metal Oxide	AA
R1915	VRS-CY1JF113FY	J 11k	1/16W Metal Oxide	AA
R1916	VRS-CY1JF113FY	J 11k	1/16W Metal Oxide	AA
R1917	VRS-CY1JF113FY	J 11k	1/16W Metal Oxide	AA
R1918	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1919	VRS-CY1JF392JY	J 3.9k	1/16W Metal Oxide	AA
R1920	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R1921	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R1923	VRS-CY1JF104JY	J 100k	1/16W Metal Oxide	AA
R1925	VRS-CY1JF104JY	J 100k	1/16W Metal Oxide	AA
R1930	VRS-CY1JF153JY	J 15k	1/16W Metal Oxide	AA
R1931	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R1932	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1933	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1934	VRS-CY1JF122JY	J 1.2k	1/16W Metal Oxide	AA
R1935	VRS-CY1JF122JY	J 1.2k	1/16W Metal Oxide	AA
R1936	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R1937	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R1938	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA
R1941	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1942	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1943	VRS-CA1JF102JY	J 1k	1/16W Metal Oxide	AA
R1944	VRS-CY1JF471JY	J 470	1/16W Metal Oxide	AA
R1945	VRS-CY1JF471JY	J 470	1/16W Metal Oxide	AA
R1946	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R1947	VRS-CY1JF392JY	J 3.9k	1/16W Metal Oxide	AA
R1948	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1950	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1951	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1952	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R1953	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2002	VRS-CY1JF683JY	J 68k	1/16W Metal Oxide	AA
R2003	VRS-CA1JF223JY	J 22k	1/16W Metal Oxide	AA
R2004	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2005	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2006	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R2007	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2008	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R2009	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2010	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2011	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2012	VRS-CA1JF101JY	J 100	1/16W Metal Oxide	AA
R2015	VRS-CB1JF100JY	J 10	1/16W Metal Oxide	AA
R2016	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2017	VRS-CA1JF102JY	J 1k	1/16W Metal Oxide	AA
R2018	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2021	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2022	VRS-CB1JF101JY	J 100	1/16W Metal Oxide	AA
R2023	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2024	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2025	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2026	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2027	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2028	VRS-CB1JF101JY	J 100	1/16W Metal Oxide	AA
R2029	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2030	VRS-CA1JF333JY	J 33k	1/16W Metal Oxide	AA
R2033	VRS-CB1JF101JY	J 100	1/16W Metal Oxide	AA
R2034	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2035	VRS-CY1JF393JY	J 39k	1/16W Metal Oxide	AA
R2036	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2037	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2038	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2040	VRS-CY1JF243JY	J 24k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R2041	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2042	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2045	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R2046	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA
R2047	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2048	VRS-CY1JF333JY	J 33k	1/16W Metal Oxide	AA
R2049	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2050	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R2052	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2054	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R2055	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2056	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2057	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R2059	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R2060	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R2061	VRS-CY1JF154JY	J 150k	1/16W Metal Oxide	AA
R2078	VRS-CY1JF223JY	J 22k	1/16W Metal Oxide	AA
R2079	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2080	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2081	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2083	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2084	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA
R2085	VRS-CY1JF224JY	J 220k	1/16W Metal Oxide	AA
R2086	VRS-CY1JF474JY	J 470k	1/16W Metal Oxide	AA
R2200	VRS-TX2HF1R0JY	J 1	1/2W Metal Oxide	AB
R2201	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2202	VRS-CY1JF222JY	J 2.2k	1/16W Metal Oxide	AA
R2203	VRS-CY1JF222JY	J 2.2k	1/16W Metal Oxide	AA
R2204	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2205	VRS-CY1JF221JY	J 220	1/16W Metal Oxide	AA
R2206	VRS-CY1JF152JY	J 1.5k	1/16W Metal Oxide	AA
R2207	VRS-CY1JF681JY	J 680	1/16W Metal Oxide	AA
R2208	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2209	VRS-CY1JF181JY	J 180	1/16W Metal Oxide	AA
R2210	VRS-CY1JF561JY	J 560	1/16W Metal Oxide	AA
R2211	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA
R2212	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA
R2213	VRS-CY1JF221JY	J 220	1/16W Metal Oxide	AA
R2214	VRS-CY1JF152JY	J 1.5k	1/16W Metal Oxide	AA
R2215	VRS-CY1JF222JY	J 2.2k	1/16W Metal Oxide	AA
R2216	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2217	VRS-CY1JF222JY	J 2.2k	1/16W Metal Oxide	AA
R2218	VRS-CY1JF221JY	J 220	1/16W Metal Oxide	AA
R2221	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2222	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2223	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2224	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA
R2225	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2226	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2227	VRS-CY1JF471JY	J 470	1/16W Metal Oxide	AA
R2228	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA
R2229	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA
R2230	VRS-TX2HF471JY	J 470	1/2W Metal Oxide	AB
R2231	VRS-TW2ED000JY	J 0	1/4W Metal Oxide	AB
R2232	VRS-TQ2BD750JY	J 75	1/8W Metal Oxide	AA
R2233	VRS-TQ2BD750JY	J 75	1/8W Metal Oxide	AA
R2234	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2235	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2236	VRS-TQ2BD750JY	J 75	1/8W Metal Oxide	AA
R2237	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2238	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2239	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA
R2240	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2241	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA
R2242	VRS-TX2HF220JY	J 22	1/2W Metal Oxide	AB
R2243	VRS-TX2HF220JY	J 22	1/2W Metal Oxide	AB
R2246	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R2247	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R3101	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R3102	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA
R3356	VRS-CY1JF153JY	J 15k	1/16W Metal Oxide	AA
R3358	VRS-CY1JF562JY	J 5.6k	1/16W Metal Oxide	AA
R3362	VRS-CY1JF182JY	J 1.8k	1/16W Metal Oxide	AA
R3363	VRS-CY1JF182JY	J 1.8k	1/16W Metal Oxide	AA
R3364	VRS-CY1JF122JY	J 1.2k	1/16W Metal Oxide	AA
R3365	VRS-CY1JF682JY	J 6.8k	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>DUNTKB522DE01</b> <b>MAIN UNIT (Continued)</b>									
R3366	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA	R3753	VRS-CA1JF272JY	J	2.7k 1/16W	Metal Oxide AA
R3368	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB	R3754	VRS-CB1JF272JY	J	2.7k 1/16W	Metal Oxide AA
R3370	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	R3755	VRS-CA1JF272JY	J	2.7k 1/16W	Metal Oxide AA
R3371	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA	R3756	VRS-CB1JF334JY	J	330k 1/16W	Metal Oxide AA
R3372	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	R3757	VRS-CA1JF334JY	J	330k 1/16W	Metal Oxide AB
R3374	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB	R3758	VRS-CB1JF334JY	J	330k 1/16W	Metal Oxide AA
R3401	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R3759	VRS-CB1JF562JY	J	5.6k 1/16W	Metal Oxide AC
R3402	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3760	VRS-CA1JF562JY	J	5.6k 1/16W	Metal Oxide AA
R3403	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA	R3761	VRS-CB1JF562JY	J	5.6k 1/16W	Metal Oxide AC
R3404	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA	R3763	VRS-CY1JF563JY	J	56k 1/16W	Metal Oxide AA
R3405	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA	R3764	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R3406	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3769	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB
R3407	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3770	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB
R3408	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3771	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
R3433	VRS-CY1JF750JY	J	75 1/16W	Metal Oxide AA	R3901	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
R3455	VRS-TQ2BD750JY	J	75 1/4W	Metal Oxide AA	R3902	VRS-CY1JF273JY	J	27k 1/16W	Metal Oxide AA
R3456	VRS-CY1JF101JY	J	100 1/16W	Metal Oxide AA	R3903	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA
R3457	VRS-CY1JF750JY	J	75 1/16W	Metal Oxide AA	R3904	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA
R3458	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA	R3905	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA
R3459	VRS-TQ2BD750JY	J	75 1/4W	Metal Oxide AA	R3906	VRS-CY1JF273JY	J	27k 1/16W	Metal Oxide AA
R3460	VRS-TQ2BD750JY	J	75 1/4W	Metal Oxide AA	R3907	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA
R3461	VRS-TQ2BD750JY	J	75 1/4W	Metal Oxide AA	R3908	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA
R3462	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3966	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA
R3491	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3967	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA
R3492	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3968	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R3494	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	R3969	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA
R3495	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3970	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA
R3496	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3971	VRS-CY1JF271JY	J	270 1/16W	Metal Oxide AA
R3497	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3972	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3500	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R3973	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3501	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	R3986	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3504	VRS-CY1JF122JY	J	1.2k 1/16W	Metal Oxide AA	R3987	VRS-CY1JF562JY	J	5.6k 1/16W	Metal Oxide AA
R3505	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA	R3989	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA
R3506	VRS-CY1JF122JY	J	1.2k 1/16W	Metal Oxide AA	R3991	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R3507	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA	R3992	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3508	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA	R3993	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3509	VRS-CY1JF471JY	J	470 1/16W	Metal Oxide AA	R3994	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA
R3510	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3995	VRS-CY1JF823JY	J	82k 1/16W	Metal Oxide AA
R3511	VRS-CY1JF473JY	J	47k 1/16W	Metal Oxide AA	R3996	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA
R3512	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	R3997	VRS-CY1JF104JY	J	100k 1/16W	Metal Oxide AA
R3513	VRS-CY1JF153JY	J	15k 1/16W	Metal Oxide AA	R3998	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA
R3700	VRS-CY1JF472JY	J	4.7k 1/16W	Metal Oxide AA	<b>MISCELLANEOUS PARTS</b>				
R3701	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	△ F3701	QFS-D0007CEZZ	J	Fuse, T1.6AL/250V	AE
R3702	VRS-TW2ED102JY	J	1k 1/4W	Metal Oxide AA	△ F3702	QFS-D0007CEZZ	J	Fuse, T1.6AL/250V	AE
R3703	VRS-CY1JF274JY	J	270k 1/16W	Metal Oxide AA	△ FH3701	QFSHD1002CEZZ	J	Fuse Holder	AA
R3704	VRS-CY1JF133FY	J	13k 1/16W	Metal Oxide AA	△ FH3702	QFSHD1002CEZZ	J	Fuse Holder	AA
R3705	VRS-CY1JF184JY	J	180k 1/16W	Metal Oxide AA	△ FH3703	QFSHD1002CEZZ	J	Fuse Holder	AA
R3706	VRS-CY1JF100JY	J	10 1/16W	Metal Oxide AA	△ FH3704	QFSHD1002CEZZ	J	Fuse Holder	AA
R3707	VRS-CY1JF105JY	J	1M 1/16W	Metal Oxide AA	FB1601	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3708	VRS-CY1JF682JY	J	6.8k 1/16W	Metal Oxide AA	FB1602	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3710	VRS-CY1JF273FY	J	27k 1/16W	Metal Oxide AA	FB1604	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3712	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB	FB1605	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3714	VRS-CE3AF821JY	J	820 1W	Metal Oxide AC	FB1608	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3717	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	FB1609	RBLN-0006TAZZY	J	Ferrite Bead	AB
R3718	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	FB1640	RBLN-0076TAZZY	J	Ferrite Bead	AC
R3720	VRS-CY1JF1R0JY	J	1 1/16W	Metal Oxide AA	FB1641	RBLN-0076TAZZY	J	Ferrite Bead	AC
R3721	VRS-CY1JF000JY	J	0 1/16W	Metal Oxide AA	FB1672	RBLN-0076TAZZY	J	Ferrite Bead	AC
R3722	VRS-TQ2BD683JY	J	68k 1/8W	Metal Oxide AA	FB1674	RBLN-0076TAZZY	J	Ferrite Bead	AC
R3726	VRS-CY1JF223JY	J	22k 1/16W	Metal Oxide AA	FB2201	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3727	VRS-CY1JF222JY	J	2.2k 1/16W	Metal Oxide AA	FB2202	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3729	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	FB2203	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3730	VRS-CY1JF103FY	J	10k 1/16W	Metal Oxide AA	FB2204	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3731	VRS-CY1JF681FY	J	680 1/16W	Metal Oxide AA	FB2205	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3732	VRS-CY1JF562FY	J	5.6k 1/16W	Metal Oxide AA	FB2206	VRS-TV1JD000JY	J	0 1/16W	Metal Oxide AA
R3733	VRS-CY1JF103JY	J	10k 1/16W	Metal Oxide AA	FB2207	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3734	VRS-CY1JF103FY	J	10k 1/16W	Metal Oxide AA	FB2208	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3735	VRS-CY1JF622FY	J	6.2k 1/16W	Metal Oxide AA	FB2209	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3736	VRS-CY1JF473FY	J	47k 1/16W	Metal Oxide AA	FB2210	VRS-TV1JD000JY	J	0 1/16W	Metal Oxide AA
R3745	VRS-CY1JF102JY	J	1k 1/16W	Metal Oxide AA	FB2211	RBLN-0062TAZZY	J	Ferrite Bead	AB
R3746	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB	FB3700	RBLN-0095CEZZY	J	Ferrite Bead	AD
R3749	VRS-TX2HF000JY	J	0 1/2W	Metal Oxide AB	FB3701	RBLN-0095CEZZY	J	Ferrite Bead	AD
R3751	VRS-CY1JF272JY	J	2.7k 1/16W	Metal Oxide AA	FB3703	RBLN-0051TAZZY	J	Ferrite Bead	AC
					FB3705	RBLN-0051TAZZY	J	Ferrite Bead	AC
					FB3706	RBLN-0051TAZZY	J	Ferrite Bead	AC
					FB3707	RBLN-0051TAZZY	J	Ferrite Bead	AC

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>DUNTKB522DE01</b> <b>MAIN UNIT (Continued)</b>					<b>DUNTKB523DE01</b> <b>R/C, LED UNIT</b>				
					<b>INTEGRATED CIRCUITS</b>				
FB3708	RBLN-0095CEZZY	J	Ferrite Bead	AD	IC101	VHiTPS819++-1Y	J	TPS819	AH
J2201	QSOC0D0456CEZZ	J	S-VIDEO(AV-IN2)	AE					
J2202	QJAKF0060CEZZ	J	AUDIO(L/R)(AV-IN2)	AE					
J2203	QJAKE0200CE04	J	VIDEO(AV-IN2)	AE					
J2204	QJAKJ0047CEZZ	J	Headphones	AD					
J3701	QJAKE0193CEZZ	J	POWER INPUT DC13V	AK					
J3902	QJAKE0200CE02	J	AUDIO OUT(R)	AE					
J3903	QJAKE0200CE09	J	AUDIO OUT(L)	AE					
P2001	QPLGN0060CEZZY	J	Plug, 10-pin (TP1)	AE					
P2002	QPLGN0641CEZZ	J	Plug, 6-pin (TP2)	AB					
P2003	QPLGN0567FJZZY	J	Plug, 5-pin(KK)	AD					
P2004	QPLGN0570FJZZY	J	Plug, 8-pin(RM)	AD					
P3301	QPLGN0478GEZZ	J	Plug, 4-pin(SA)	AB					
P3701	QPLGN0541FJZZY	J	Plug, 4-pin(GA)	AD					
P3702	QPLGN0541FJZZY	J	Plug, 4-pin(GB)	AD					
P3703	QLUGHA001WJZZY	J	Lug	AD					
P3705	QPLGNA059WJZZ	J	Plug, 5-pin(PF)	AC					
P3706	QPLGN0574FJZZY	J	Plug, 12-pin(MB)	AE					
P3901	QLUGHA001WJZZY	J	Lug	AD					
SC2001	QSOCN0488FJZZY	J	Socket, 22-pin(MC)	AE					
SC2201	QSOCN0488FJZZY	J	Socket	AE					
SC2202	QSOCN0488FJZZY	J	Socket	AE					
SC3903	QSOCZA012WJZZ	J	AV-IN1(21-pin Euro-SCART)	AG					
PSLDCA005WJZZ	J	Shield	AC						
LANGT9102CEFW	J	Fixing Metal	AF						
					<b>TRANSISTORS</b>				
Q101	VS2SC2712Y/-1Y	J	2SC2712Y	AB					
Q102	VS2SC2712Y/-1Y	J	2SC2712Y	AB					
Q103	VS2SC2712Y/-1Y	J	2SC2712Y	AB					
Q104	VS2SC3928AR-1Y	J	2SC3928AR	AB					
Q105	VS2SC3928AR-1Y	J	2SC3928AR	AB					
Q106	VS2SC2712Y/-1Y	J	2SC2712Y	AB					
					<b>DIODES</b>				
D101	RH-EX0879CEZZY	J	Zener Diode, 12V	AD					
D102	RH-PX0198TAZZY	J	OPC Indicator	AC					
D103	RH-PX0421CEZZY	J	POWER/STANDBY Indicator	AD					
D104	RH-PX0419CEZZY	J	Remote Sensor Indicator	AC					
					<b>CAPACITORS</b>				
C102	VCKYTV1CF225ZY	J	2.2	16V	Ceramic	AB			
C104	VCEAPF1HN106MY	J	10	50V	Electrolytic	AD			
C105	VCKYCY1HF103ZY	J	0.01	50V	Ceramic	AA			
					<b>RESISTORS</b>				
R101	VRS-CY1JF101JY	J	100	1/16W	Metal Oxide	AA			
R102	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA			
R104	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA			
R105	VRS-CY1JF393JY	J	39k	1/16W	Metal Oxide	AA			
R106	VRS-CY1JF683JY	J	68k	1/16W	Metal Oxide	AA			
R108	VRS-CY1JF471JY	J	470	1/16W	Metal Oxide	AA			
R109	VRS-CY1JF472JY	J	4.7k	1/16W	Metal Oxide	AA			
R113	VRS-CY1JF332JY	J	3.3k	1/16W	Metal Oxide	AA			
R115	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA			
R116	VRS-CY1JF273JY	J	27k	1/16W	Metal Oxide	AA			
					<b>MISCELLANEOUS PARTS</b>				
P101	QPLGN0864TAZZY	J	Plug, 8-pin(RM)	AE					
RMC101	RRMCU0239CEZZ	J	Remote Receiver	AG					
SLD101	PSLDM4646CEFW	J	Shield	AD					

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

## DUNTKB524DE01 OPERATION UNIT (Continued)

<b>DIODES</b>				
D130	RH-EX0879CEZZY	J	Zener Diode, 12V	AD
D131	RH-EX0879CEZZY	J	Zener Diode, 12V	AD
<b>RESISTORS</b>				
R130	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R131	VRS-CY1JF822JY	J	8.2k 1/16W Metal Oxide	AA
R132	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
R133	VRS-CY1JF123JY	J	12k 1/16W Metal Oxide	AA
<b>SWITCHES</b>				
SW130	QSW-K0108CEZZY	J	Volume(-)	AD
SW131	QSW-K0108CEZZY	J	Volume(+)	AD
SW132	QSW-K0108CEZZY	J	CH(∨)	AD
SW133	QSW-K0108CEZZY	J	CH(∧)	AD
SW134	QSW-K0108CEZZY	J	MENU	AD
SW135	QSW-K0108CEZZY	J	TV/VIDEO	AD
SW136	QSW-P0035GEZZ	J	MAIN POWER	AF
<b>MISCELLANEOUS PARTS</b>				
P130	QPLGN0564TAZZY	J	Plug, 5-pin(KK)	AC

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

## DUNTKB525FE01 DIGITAL UNIT

<b>INTEGRATED CIRCUITS</b>				
IC801	VHiVPC3230D1EQ	J	VPC3230D-QA-B3	BD
IC4101	VHiM66611FP-1Q	J	M66611FP	BE
IC4104	VHiPQ20VZ11-1Y	J	PQ20VZ11	AG
IC4105	VHiTC7W74F-1Y	J	TC7W74F	AE
IC4106	VHiTC7W08F-1Y	J	TC7W08F	AE
IC4503	VHiPQ1CZ21H-1Y	J	PQ1CZ21H2ZP	AH
IC4504	VHiBA033FP-1Y	J	VPC3230D-QA-B3	AG
IC4557	VHiPQ1CZ21H-1Y	J	PQ1CZ21H2ZP	AH
IC4561	RH-iXA332WJZZQ	J	I.C.	BH
IC4564	RH-iXA474WJN1	J	XC17S150XLPD8C	AY
IC4565	VHiLT1615ES-1Y	J	LT1615ES5	AP
IC4568	VHiLT1617ES-1Y	J	LT1617ES5	AP
IC4569	VHiLTC1872+1Y	J	LTC1872ES6	AR
IC4570	VSSi4884DY+-1Y	J	SI4884DY-T1	AG
IC4701	VHiMB8346BV-1Y	J	MB88346BPFV	AN
IC4702	VHiMB8346BV-1Y	J	MB88346BPFV	AN
IC4703	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4704	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4705	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4706	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4707	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4708	VHiNJM2060V-1Y	J	NJM2060V	AF
IC4709	VHiLM6134BX-1Y	J	LM6134BIMX	AQ
IC4710	VHiLM6134BX-1Y	J	LM6134BIMX	AQ
IC4711	VHiNJM4580V-1Y	J	NJM4580V	AE
IC4713	VHiPQ3DZ13U-1Y	J	PQ3DZ13U	AG
IC4714	VHiSNT244AS-1Y	J	VPC3230D-QA-B3	AF
IC4907	VHiTC74AC8T-1Y	J	VPC3230D-QA-B3	AF
IC4908	VHiPQ1CZ21H-1Y	J	PQ1CZ21H2ZP	AH
IC4909	VHiPQ1CZ21H-1Y	J	PQ1CZ21H2ZP	AH

<b>TRANSISTORS</b>				
Q420	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q421	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q820	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4561	VS2SK1826++-1Y	J	2SK1826++	AC
Q4563	VS2SK1826++-1Y	J	2SK1826++	AC
Q4564	VS2SA1530AR-1Y	J	2SA1530AR	AB
Q4565	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4566	VSTP0610T++-1Y	J	TP0610T++	AD
Q4567	VS2SC3928AR-1Y	J	2SC3928AR	AB
Q4701	VS2SD1664Q+-1Y	J	2SD1664Q+	AB
Q4703	VS2SC3928AR-1Y	J	2SC3928AR	AB

<b>DIODES</b>				
D4101	VHDDAN202K-1Y	J	Diode	AB
D4506	VHDSFPB74//2EY	J	Diode	AD
D4558	VHDHSU119//-1Y	J	Diode	AB
D4559	VHDSFPB74//2EY	J	Diode	AD
D4564	VHDSFPB54//2EY	J	Diode	AC
D4565	VHDSFPB74//2EY	J	Diode	AD
D4566	VHDSFPB54//2EY	J	Diode	AC
D4569	VHDHSU119//-1Y	J	Diode	AB
D4570	VHDHSU119//-1Y	J	Diode	AB
D4573	VHDHSU119//-1Y	J	Diode	AB
D4574	VHDHSU119//-1Y	J	Diode	AB
D4702	VHDDAN222/-1Y	J	Diode	AA
D4703	VHDSC8024//1Y	J	Diode	AC
D4704	VHDSC8024//1Y	J	Diode	AC
D4706	VHDHSU119//-1Y	J	Diode	AB
D4901	VHDSFPB54//2EY	J	Diode	AC
D4902	VHDSFPB54//2EY	J	Diode	AC

<b>PACKAGED CIRCUITS</b>				
X801	RCRSC0012CEZZY	J	Crystal, 20.25MHz	AH
X4101	RCRSCA006WJZZY	J	Crystal, 11.00MHz	AH

<b>FILTERS</b>				
FL401	RFiLCA002WJZZY	J	Filter	AG
FL801	RFiLCA002WJZZY	J	Filter	AG
FL4510	RFiLNA021WJZZY	J	Filter	AE

Ref. No.	Part No.	★	Description	Code
<b>DUNTKB525FE01</b> <b>DIGITAL UNIT (Continued)</b>				
FL4511	RFILNA021WJZZY	J	Filter	AE
FL4512	RFILNA021WJZZY	J	Filter	AE
FL4561	RFILNA021WJZZY	J	Filter	AE
FL4562	RFILNA021WJZZY	J	Filter	AE
FL4563	RFILNA021WJZZY	J	Filter	AE
FL4564	RFILNA021WJZZY	J	Filter	AE
FL4565	RFILNA021WJZZY	J	Filter	AE
FL4566	RFILNA021WJZZY	J	Filter	AE
FL4567	RFILNA021WJZZY	J	Filter	AE
FL4568	RFILNA021WJZZY	J	Filter	AE
FL4569	RFILNA021WJZZY	J	Filter	AE
FL4570	RFILNA002WJZZY	J	Filter	AD
FL4571	RFILNA002WJZZY	J	Filter	AD
FL4572	RFILNA027WJZZY	J	Filter	AD
FL4574	RFILNA027WJZZY	J	Filter	AD
FL4901	RFILNA002WJZZY	J	Filter	AD
FL4902	RFILNA002WJZZY	J	Filter	AD
FL4903	RFILNA027WJZZY	J	Filter	AD
<b>COILS</b>				
L804	RCILC0055CEZZY	J	Coil	AD
L805	RCILC0055CEZZY	J	Coil	AD
L812	VP-9N220KR61NY	J	Coil	AB
L813	VP-9N220KR61NY	J	Coil	AB
L814	VP-9N220KR61NY	J	Coil	AB
L4506	RCILC0055CEZZY	J	Coil	AD
L4507	RCILC0135CEZZY	J	Coil	AF
L4508	RCILC0055CEZZY	J	Coil	AD
L4552	RCILP0402CEZZY	J	Coil	AF
L4561	VPBWM100KR50NY	J	Peaking 10µH	AC
L4563	VPBWM220K1R2NY	J	Peaking 22µH	AC
L4564	VPBWM220K1R2NY	J	Peaking 22µH	AC
L4565	RCILP0270TAZZY	J	Coil	AD
L4567	VPD9M4R7J1R4NY	J	Peaking 4.7µH	AB
L4568	VPD9M4R7J1R4NY	J	Peaking 4.7µH	AB
L4569	RCILP0343TAZZY	J	Coil	AD
L4601	RCILP0343TAZZY	J	Coil	AD
L4602	RCILP0343TAZZY	J	Coil	AD
L4901	RCILC0141CEZZY	J	Coil	AF
L4902	RCILC0141CEZZY	J	Coil	AF
L4903	RCILP0343TAZZY	J	Coil	AD
L4904	RCILP0343TAZZY	J	Coil	AD
<b>CONTROL</b>				
R4657	RVR-M0116CEZZY	J	6.8k(B) +13V Adj.	AC
<b>CAPACITORS</b>				
C408	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C409	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C410	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C411	VCKYTV1CF105ZY	J	1 16V Ceramic	AB
C801	VCEAPF1CN106MY	J	10 16V Electrolytic	AD
C802	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C803	VCCCCY1HH7R0DY	J	7p 50V Ceramic	AA
C804	VCCCCY1HH7R0DY	J	7p 50V Ceramic	AA
C805	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C806	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C809	VCEAPK1CN107MY	J	100 16V Electrolytic	AD
C810	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C812	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C813	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C814	VCKYCY1HB102KY	J	1000p 50V Ceramic	AA
C815	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C816	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C817	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C818	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C819	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C820	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C821	VCEASH1CN477MY	J	470 16V Electrolytic	AD
C822	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C823	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C826	VCEAPF0GW107MY	J	100 4V Electrolytic	AC

Ref. No.	Part No.	★	Description	Code
C827	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C830	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C831	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C832	VCKYCY1CF224ZY	J	0.22 16V Ceramic	AB
C833	VCEAPF0GW107MY	J	100 4V Electrolytic	AC
C834	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C835	VCEAPF0JW107MY	J	100 6.3V Electrolytic	AC
C836	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C837	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C838	VCEAPF0GW107MY	J	100 4V Electrolytic	AC
C839	RC-KZ1025CEZZY	J	1 10V Ceramic	AB
C840	VCKYTV1CF684ZY	J	0.68 16V Ceramic	AB
C842	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C843	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C844	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C845	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C846	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C847	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C848	VCCCCY1HH101JY	J	100p 50V Ceramic	AA
C850	VCCCCY1HH180JY	J	18p 50V Ceramic	AA
C873	VCCCCY1HH470JY	J	47p 50V Ceramic	AA
C874	VCCCCY1HH470JY	J	47p 50V Ceramic	AA
C875	VCCCCY1HH470JY	J	47p 50V Ceramic	AA
C4109	VCEAPF1CN476MY	J	47 16V Electrolytic	AD
C4111	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C4119	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4120	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4121	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4122	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4123	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4124	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4125	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4126	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4127	VCCCCY1HH120JY	J	12p 50V Ceramic	AA
C4128	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4129	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4130	VCCCCY1HH150JY	J	15p 50V Ceramic	AA
C4131	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4132	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4133	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4134	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4135	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4136	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4137	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4142	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C4143	VCEAPF0JW476MY	J	47 6.3V Electrolytic	AB
C4145	VCEAPF0JW226MY	J	22 6.3V Electrolytic	AB
C4146	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4147	RC-KZ0074TAZZY	J	10 6.3V Ceramic	AF
C4148	RC-KZ0070TAZZY	J	10 6.3V Ceramic	AF
C4509	RC-KZ0074TAZZY	J	4.7 16V Ceramic	AD
C4552	VCEAPF1CN107MY	J	100 16V Electrolytic	AD
C4553	VCEASK1CN227MY	J	220 16V Electrolytic	AC
C4554	VCEASK0JN337MY	J	330 6.3V Electrolytic	AC
C4555	VCKYCY1CF334ZY	J	0.33 16V Ceramic	AB
C4556	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C4561	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C4562	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4563	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4564	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4565	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4566	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4567	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4568	VCEAPF0JW227MY	J	220 6.3V Electrolytic	AD
C4569	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4570	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4572	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4573	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4574	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4575	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4576	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4578	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4579	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4580	VCKYCY1HB103KY	J	0.01 50V Ceramic	AA
C4581	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA
C4582	VCKYCY1EF104ZY	J	0.1 25V Ceramic	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code					
<b>DUNTKB525FE01</b>														
<b>DIGITAL UNIT (Continued)</b>														
C4583	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4730	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA					
C4587	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4732	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA					
C4589	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4733	VCEAPF1CN107MY	J 100	16V Electrolytic	AD					
C4590	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4735	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA					
C4591	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4737	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD					
C4592	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4738	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD					
C4594	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4739	VCEASK0JN107MY	J 100	6.3V Electrolytic	AD					
C4595	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4740	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA					
C4596	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4901	VCEASK1CN477MY	J 470	16V Electrolytic	AD					
C4597	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4902	VCEASK0JN107MY	J 100	6.3V Electrolytic	AD					
C4598	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4903	VCCCCY1HH561JY	J 560p	50V Ceramic	AB					
C4599	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4904	VCEAPF0JW476MY	J 47	6.3V Electrolytic	AB					
C4602	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4905	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA					
C4603	VCEASK1CN227MY	J 220	16V Electrolytic	AC	C4906	VCEAPF1CN107MY	J 100	16V Electrolytic	AD					
C4604	VCAAPF1DJ226MY	J 22	20V Electrolytic	AF	C4908	VCEAPF1CN107MY	J 100	16V Electrolytic	AD					
C4606	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	C4909	VCEASK1EN476MY	J 47	25V Electrolytic	AD					
C4607	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	C4910	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA					
C4608	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	C4912	VCEASK1CN477MY	J 470	16V Electrolytic	AD					
C4612	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA	C4913	VCEASK0JN107MY	J 100	6.3V Electrolytic	AD					
C4613	VCEASK1HN106MY	J 10	50V Electrolytic	AD	C4914	VCKYCY1HB103KY	J 0.01	50V Ceramic	AA					
C4614	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	C4915	VCAAPF0JJ107MY	J 100	6.3V Electrolytic	AF					
C4615	VCKYCY1CF224ZY	J 0.22	16V Ceramic	AB										
C4616	RC-KZA047WJZZY	J 1	50V Ceramic	AB	<b>RESISTORS</b>									
C4617	VCAAPF1CJ396MY	J 39	16V Electrolytic	AF	R417	VRS-CY1JF331JY	J 330	1/16W Metal Oxide	AA					
C4620	VCCCCY1HH221JY	J 220p	50V Ceramic	AA	R420	VRS-CY1JF152JY	J 1.5k	1/16W Metal Oxide	AA					
C4621	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	R421	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA					
C4622	VCEASK0JN476MY	J 47	6.3V Electrolytic	AD	R422	VRS-CY1JF471JY	J 470	1/16W Metal Oxide	AA					
C4623	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R424	VRS-CY1JF331JY	J 330	1/16W Metal Oxide	AA					
C4625	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R427	VRS-CY1JF561JY	J 560	1/16W Metal Oxide	AA					
C4628	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	R428	VRS-CY1JF561JY	J 560	1/16W Metal Oxide	AA					
C4629	VCEASK1EN476MY	J 47	25V Electrolytic	AD	R801	VRS-CB1JF220JY	J 22	1/16W Metal Oxide	AC					
C4630	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R802	VRS-CB1JF220JY	J 22	1/16W Metal Oxide	AC					
C4631	VCCCCY1HH5R0CY	J 5p	50V Ceramic	AA	R803	VRS-CB1JF220JY	J 22	1/16W Metal Oxide	AC					
C4632	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R804	VRS-CA1JF101JY	J 100	1/16W Metal Oxide	AA					
C4633	VCCCCY1HH101JY	J 100p	50V Ceramic	AA	R805	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA					
C4634	RC-KZ0070TAZZY	J 4.7	16V Ceramic	AD	R810	VRS-CB1JF220JY	J 22	1/16W Metal Oxide	AC					
C4635	VCEAPF1CW107MY	J 100	16V Electrolytic	AC	R811	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4636	VCEASK1EN476MY	J 47	25V Electrolytic	AD	R812	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4637	RC-KZA047WJZZY	J 1	50V Ceramic	AB	R813	VRS-CB1JF220JY	J 22	1/16W Metal Oxide	AC					
C4641	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA	R815	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4642	VCAAPF1AJ157MY	J 150	10V Electrolytic	AG	R816	VRS-CY1JF470JY	J 47	1/16W Metal Oxide	AA					
C4643	VCKYCY1HB102KY	J 1000p	50V Ceramic	AA	R817	VRS-CY1JF332JY	J 3.3k	1/16W Metal Oxide	AA					
C4644	VCEASK1CN477MY	J 470	16V Electrolytic	AD	R818	VRS-CY1JF331JY	J 330	1/16W Metal Oxide	AA					
C4701	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R819	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4702	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R820	VRS-CA1JF101JY	J 100	1/16W Metal Oxide	AA					
C4703	VCEASK0JN476MY	J 47	6.3V Electrolytic	AD	R821	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA					
C4704	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R822	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4705	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R826	VRS-CY1JF101JY	J 100	1/16W Metal Oxide	AA					
C4706	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R830	VRS-CY1JF561JY	J 560	1/16W Metal Oxide	AA					
C4707	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R832	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4708	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R836	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4709	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R865	VRS-CY1JF472JY	J 4.7k	1/16W Metal Oxide	AA					
C4710	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R869	VRS-CB1JF000JY	J 0	1/16W Metal Oxide	AC					
C4711	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R870	VRS-CB1JF000JY	J 0	1/16W Metal Oxide	AC					
C4712	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R873	VRS-CA1JF000JY	J 0	1/16W Metal Oxide	AB					
C4713	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R874	VRS-CB1JF000JY	J 0	1/16W Metal Oxide	AC					
C4714	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R875	VRS-CB1JF000JY	J 0	1/16W Metal Oxide	AC					
C4715	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R876	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4716	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R878	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4717	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R4102	VRS-CY1JF330JY	J 33	1/16W Metal Oxide	AA					
C4718	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R4103	VRS-CY1JF330JY	J 33	1/16W Metal Oxide	AA					
C4719	VCKYCY1EF104ZY	J 0.1	25V Ceramic	AA	R4104	VRS-CY1JF330JY	J 33	1/16W Metal Oxide	AA					
C4720	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4105	VRS-CY1JF330JY	J 33	1/16W Metal Oxide	AA					
C4721	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4106	VRS-CY1JF330JY	J 33	1/16W Metal Oxide	AA					
C4722	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4111	VRS-CY1JF000JY	J 0	1/16W Metal Oxide	AA					
C4723	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4122	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA					
C4724	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4125	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA					
C4725	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4128	VRS-CY1JF103JY	J 10k	1/16W Metal Oxide	AA					
C4726	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4131	VRS-CY1JF680JY	J 68	1/16W Metal Oxide	AA					
C4727	VCKYTV1CB105KY	J 1	16V Ceramic	AC	R4134	VRS-CY1JF102F	J 1k	1/16W Metal Oxide	AA					
C4728	VCEASK1EN107MY	J 100	25V Electrolytic	AC	R4137	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA					
C4729	VCCCCY1HH680JY	J 68p	50V Ceramic	AA	R4138	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA					
					R4139	VRS-CY1JF473JY	J 47k	1/16W Metal Oxide	AA					
					R4140	VRS-CY1JF105JY	J 1M	1/16W Metal Oxide	AA					
					R4141	VRS-CY1JF102JY	J 1k	1/16W Metal Oxide	AA					
					R4142	VRK-CD1JJ220JY	J 22	1/16W Metal Composition	AC					

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

**DUNTKB525FE01**  
**DIGITAL UNIT (Continued)**

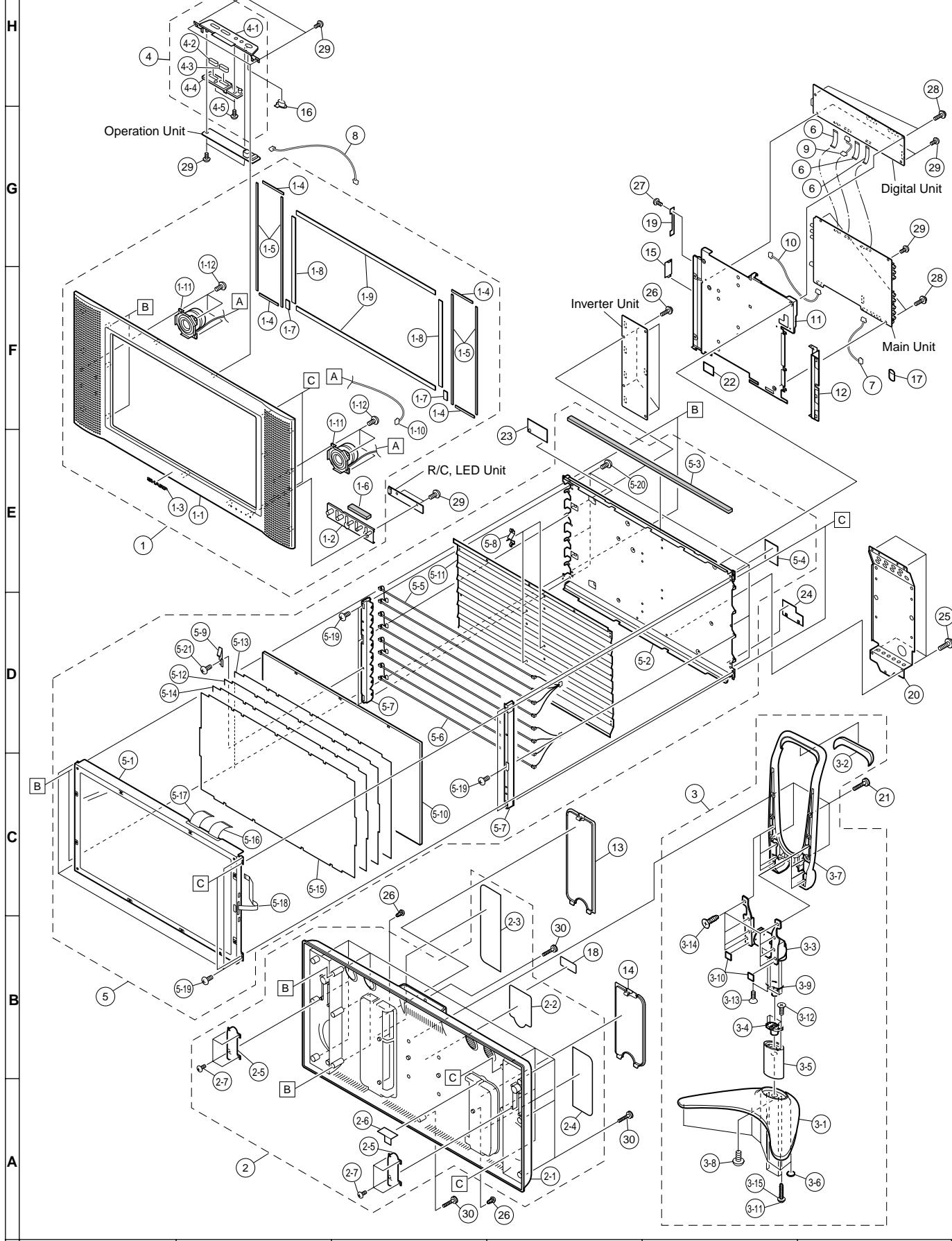
R4143	VRK-CD1JJ220JY	J 22	1/16W	Metal Composition	AC
R4144	VRK-CD1JJ220JY	J 22	1/16W	Metal Composition	AC
R4145	VRK-CD1JJ220JY	J 22	1/16W	Metal Composition	AC
R4146	VRK-CD1JJ220JY	J 22	1/16W	Metal Composition	AC
R4147	VRK-CD1JJ220JY	J 22	1/16W	Metal Composition	AC
R4148	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4149	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4150	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4152	VRS-CY1JF102FY	J 1k	1/16W	Metal Oxide	AA
R4153	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4155	VRS-TW2ED000JY	J 0	1/4W	Metal Oxide	AB
R4156	VRS-TW2ED000JY	J 0	1/4W	Metal Oxide	AB
R4190	VRK-CD1JJ101JY	J 100	1/16W	Metal Composition	AC
R4191	VRK-CD1JJ101JY	J 100	1/16W	Metal Composition	AC
R4192	VRK-CD1JJ101JY	J 100	1/16W	Metal Composition	AC
R4539	VRS-CY1JF302FY	J 3k	1/16W	Metal Oxide	AA
R4540	VRS-CY1JF102FY	J 1k	1/16W	Metal Oxide	AA
R4542	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA
R4544	VRS-TX2HF000JY	J 0	1/2W	Metal Oxide	AB
R4562	VRS-CY1JF680JY	J 68	1/16W	Metal Oxide	AA
R4563	VRS-CY1JF101JY	J 100	1/16W	Metal Oxide	AA
R4564	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4565	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4566	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4567	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4568	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4569	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4570	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4571	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4572	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4573	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4574	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4578	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4580	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4582	VRS-CY1JF101JY	J 100	1/16W	Metal Oxide	AA
R4583	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4585	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4586	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4587	VRS-CY1JF101JY	J 100	1/16W	Metal Oxide	AA
R4588	VRS-CY1JF101JY	J 100	1/16W	Metal Oxide	AA
R4592	VRS-CA1JF101JY	J 100	1/16W	Metal Oxide	AA
R4595	VRS-CA1JF101JY	J 100	1/16W	Metal Oxide	AA
R4597	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4599	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4601	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA
R4602	VRS-TV1JD331JY	J 330	1/16W	Metal Oxide	AB
R4603	VRS-CY1JF331JY	J 330	1/16W	Metal Oxide	AA
R4604	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4607	VRS-TX2HF562JY	J 5.6k	1/2W	Metal Oxide	AB
R4608	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4613	VRS-CA1JF101JY	J 100	1/16W	Metal Oxide	AA
R4615	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4616	VRS-CY1JF472JY	J 4.7k	1/16W	Metal Oxide	AA
R4618	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4627	VRS-CY1JF392JY	J 3.9k	1/16W	Metal Oxide	AA
R4628	VRS-CY1JF124FY	J 120k	1/16W	Metal Oxide	AA
R4629	VRS-CY1JF105FY	J 1M	1/16W	Metal Oxide	AA
R4630	RR-NZ0027TAZZY	J 0.056	1/4W	Metal Film	AC
R4631	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA
R4632	VRS-CY1JF393FY	J 39k	1/16W	Metal Oxide	AA
R4633	VRS-CY1JF154FY	J 150k	1/16W	Metal Oxide	AA
R4635	VRS-CY1JF683FY	J 68k	1/16W	Metal Oxide	AA
R4640	VRS-CY1JF154FY	J 150k	1/16W	Metal Oxide	AA
R4645	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4654	VRS-CY1JF105FY	J 1M	1/16W	Metal Oxide	AA
R4658	VRS-CY1JF623FY	J 62k	1/16W	Metal Oxide	AA
R4659	VRS-CY1JF223JY	J 22k	1/16W	Metal Oxide	AA
R4660	VRS-CY1JF222JY	J 2.2k	1/16W	Metal Oxide	AA
R4661	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA
R4662	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA
R4663	VRS-TX2HF682JY	J 6.8k	1/2W	Metal Oxide	AB
R4664	VRS-TV1JD223JY	J 22k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	
R4665	VRS-TV1JD222JY	J 2.2k	1/16W	Metal Oxide	AA
R4666	VRS-TW2ED821JY	J 820	1/4W	Metal Oxide	AB
R4667	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4671	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4672	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4673	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4674	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4675	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4676	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4677	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4678	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4679	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4680	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4681	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4682	VRS-CB1JF330JY	J 33	1/16W	Metal Oxide	AC
R4683	VRS-CA1JF000JY	J 0	1/16W	Metal Oxide	AB
R4685	VRS-CY1JF101JY	J 100	1/16W	Metal Oxide	AA
R4686	VRS-CB1JF000JY	J 0	1/16W	Metal Oxide	AC
R4691	VRS-CY1JF121JY	J 120	1/16W	Metal Oxide	AA
R4692	VRS-CY1JF102JY	J 1k	1/16W	Metal Oxide	AA
R4693	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4701	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4705	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4706	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA
R4709	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA
R4710	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA
R4711	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA
R4712	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA
R4713	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA
R4714	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA
R4715	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA
R4716	VRS-CY1JF392FY	J 3.9k	1/16W	Metal Oxide	AA
R4717	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4718	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4719	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4720	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4721	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4722	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4723	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4724	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4725	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4726	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4727	VRS-CY1JF393FY	J 39k	1/16W	Metal Oxide	AA
R4728	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4729	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4730	VRS-CY1JF223FY	J 22k	1/16W	Metal Oxide	AA
R4731	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4732	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4733	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA
R4734	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4735	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4736	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4737	VRS-CY1JF822FY	J 8.2k	1/16W	Metal Oxide	AA
R4738	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA
R4739	VRS-CY1JF113FY	J 11k	1/16W	Metal Oxide	AA
R4740	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA
R4741	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4742	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4743	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4744	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA
R4745	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA
R4746	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA
R4747	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA
R4748	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA
R4749	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA
R4750	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA
R4751	VRS-CY1JF323FY	J 3.3k	1/16W	Metal Oxide	AA
R4752	VRS-CY1JF183FY	J 18k	1/16W	Metal Oxide	AA
R4753	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA
R4754	VRS-CY1JF223FY	J 22k	1/16W	Metal Oxide	AA
R4755	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA
R4756	VRS-CY1JF432FY	J 4.3k	1/16W	Metal Oxide	AA
R4757	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA
R4758	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA
R4759	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA
R4760	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code						
<b>DUNTKB525FE01</b> <b>DIGITAL UNIT (Continued)</b>															
R4761	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA	R4842	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4762	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA	R4843	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4763	VRS-CY1JF473FY	J 47k	1/16W	Metal Oxide	AA	R4844	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4764	VRS-CY1JF273FY	J 27k	1/16W	Metal Oxide	AA	R4845	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4765	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4846	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4766	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA	R4847	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4767	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA	R4848	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4768	VRS-CY1JF562FY	J 5.6k	1/16W	Metal Oxide	AA	R4849	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4769	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4850	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4770	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4851	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA				
R4771	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4852	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA				
R4772	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4853	VRS-CY1JF243FY	J 24k	1/16W	Metal Oxide	AA				
R4773	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4854	VRS-TW2ED331JY	J 330	1/4W	Metal Oxide	AB				
R4774	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4855	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4775	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4856	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4776	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4857	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4777	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4858	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4778	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4859	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4779	VRS-CY1JF183FY	J 18k	1/16W	Metal Oxide	AA	R4860	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4780	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4861	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4781	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4862	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4782	VRS-CY1JF393FY	J 39k	1/16W	Metal Oxide	AA	R4901	VRS-CY1JF220JY	J 22	1/16W	Metal Oxide	AA				
R4783	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4904	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4784	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4905	VRS-CY1JF102FY	J 1k	1/16W	Metal Oxide	AA				
R4785	VRS-CY1JF163FY	J 16k	1/16W	Metal Oxide	AA	R4907	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA				
R4786	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4908	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA				
R4787	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4909	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA				
R4788	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	R4910	VRS-CY1JF102FY	J 1k	1/16W	Metal Oxide	AA				
R4789	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	R4911	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA				
R4790	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	R4912	VRS-CY1JF102FY	J 1k	1/16W	Metal Oxide	AA				
R4791	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	<b>MISCELLANEOUS PARTS</b>									
R4792	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	FB801	RBLN-0090CEZZY	J	Ferrite Bead		AD				
R4793	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA	FB802	RBLN-0090CEZZY	J	Ferrite Bead		AD				
R4794	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA	FB804	RBLN-0051TAZZY	J	Ferrite Bead		AC				
R4795	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA	FB805	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4796	VRS-CY1JF104JY	J 100k	1/16W	Metal Oxide	AA	FB806	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4797	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA	FB4105	RBLN-0051TAZZY	J	Ferrite Bead		AC				
R4798	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA	FB4106	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4799	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA	FB4108	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4800	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA	FB4109	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4801	VRS-CY1JF133FY	J 13k	1/16W	Metal Oxide	AA	FB4112	RBLN-0077TAZZY	J	Ferrite Bead		AB				
R4802	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA	FB4113	RBLN-0077TAZZY	J	Ferrite Bead		AB				
R4803	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4120	RBLN-A005WJZZY	J	Ferrite Bead		AA				
R4804	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA	FB4561	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4805	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4562	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4806	VRS-CY1JF183FY	J 18k	1/16W	Metal Oxide	AA	FB4563	RBLN-A005WJZZY	J	Ferrite Bead		AA				
R4807	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4565	RBLN-0252TAZZY	J	Ferrite Bead		AA				
R4808	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4566	RBLN-0252TAZZY	J	Ferrite Bead		AA				
R4809	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	FB4601	RBLN-0252TAZZY	J	Ferrite Bead		AA				
R4810	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	FB4701	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4811	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	FB4703	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4812	VRS-CY1JF123FY	J 12k	1/16W	Metal Oxide	AA	FB4704	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4813	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	FB4705	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4814	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	FB4706	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4815	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4707	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4816	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA	FB4708	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4820	VRS-CY1JF103JY	J 10k	1/16W	Metal Oxide	AA	FB4709	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4823	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	FB4710	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4825	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	FB4711	RBLN-1043CEZZY	J	Ferrite Bead		AB				
R4827	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA	FB4901	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4830	VRS-TW2ED330JY	J 33	1/4W	Metal Oxide	AA	FB4902	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4831	VRS-CY1JF103FY	J 10k	1/16W	Metal Oxide	AA	FB4903	RBLN-0252TAZZY	J	Ferrite Bead		AA				
R4832	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4905	RBLN-0252TAZZY	J	Ferrite Bead		AA				
R4833	VRS-CY1JF153FY	J 15k	1/16W	Metal Oxide	AA	FB4907	RBLN-0077TAZZY	J	Ferrite Bead		AB				
R4834	VRS-CY1JF332FY	J 3.3k	1/16W	Metal Oxide	AA	FB4908	VRS-CY1JF000JY	J 0	1/16W	Metal Oxide	AA				
R4835	VRS-CY1JF682FY	J 6.8k	1/16W	Metal Oxide	AA	FB4909	RBLN-0050TAZZY	J	Ferrite Bead		AA				
R4836	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	P410	QPLGN0574FJZZY	J	Plug, 12-pin(MB)		AE				
R4837	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	P4101	QLUGH001WJZZY	J	Lug		AD				
R4838	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	P4102	QLUGH001WJZZY	J	Lug		AD				
R4839	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	SC401	QSOCN0488FJZZY	J	Socket, 22-pin(MA)		AE				
R4840	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	SC402	QSOCN0488FJZZY	J	Socket, 22-pin(ME)		AE				
R4841	VRS-CY1JF330JY	J 33	1/16W	Metal Oxide	AA	SC4561	QSOCN0684FJZZY	J	Socket, 30-pin(GD)		AF				
					SC4562	QSOCZ0814CEZZ	J	Socket, 8-pin		AC					
					SC4701	QSOCN0488FJZZY	J	Socket, 22-pin(MC)		AE					
					SC4901	QSOCN0687FJZZY	J	Socket, 50-pin(SCN2)		AF					
					SC4902	QSOCN0688FJZZY	J	Socket, 53-pin(SCN1)		AF					

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>DUNTKB526FE01</b>									
<b>INVERTER UNIT</b>									
<b>TRANSISTORS</b>									
Q6551	VSFZT1053A/-1Y	J	FZT1053A	AG	△ F6551	QFS-D0006CEZZ	J	Fuse, T1.25AL/250V	AF
Q6552	VSFZT1053A/-1Y	J	FZT1053A	AG	△ F6552	QFS-D0006CEZZ	J	Fuse, T1.25AL/250V	AF
Q6553	VS2SA1037KQ-1Y	J	2SA1037KQ	AA	△ F6553	QFS-D0006CEZZ	J	Fuse, T1.25AL/250V	AF
Q6554	VSFZT1053A/-1Y	J	FZT1053A	AG	△ F6554	QFS-D0006CEZZ	J	Fuse, T1.25AL/250V	AF
Q6555	VSFZT1053A/-1Y	J	FZT1053A	AG	FH6551	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6556	VS2SA1037KQ-1Y	J	2SA1037KQ	AA	FH6552	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6557	VSFZT1053A/-1Y	J	FZT1053A	AG	FH6553	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6558	VSFZT1053A/-1Y	J	FZT1053A	AG	FH6554	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6559	VS2SA1037KQ-1Y	J	2SA1037KQ	AA	FH6555	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6560	VSFZT1053A/-1Y	J	FZT1053A	AG	FH6556	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6561	VSFZT1053A/-1Y	J	FZT1053A	AG	FH6557	QFSHD1002CEZZ	J	Fuse Holder	AA
Q6562	VS2SA1037KQ-1Y	J	2SA1037KQ	AA	FH6558	QFSHD1002CEZZ	J	Fuse Holder	AA
<b>DIODES</b>									
D6551	VHDHSU119//1Y	J	Diode	AB	P706	QPLGNA059WJZZ	J	Plug, 5-pin(PF)	AC
D6552	VHDHSU119//1Y	J	Diode	AB	P6551	QPLGN0155FJZZY	J	Plug, 3-pin(LA)	AE
D6553	VHDHSU119//1Y	J	Diode	AB	P6552	QPLGN0155FJZZY	J	Plug, 3-pin(LB)	AE
D6554	VHDHSU119//1Y	J	Diode	AB	P6553	QPLGN0155FJZZY	J	Plug, 3-pin(LC)	AE
<b>COILS</b>									
L6552	RCILPA034WJZZ	J	Coil	AD	P6554	QPLGN0155FJZZY	J	Plug, 3-pin(LD)	AE
L6554	RCILPA034WJZZ	J	Coil	AD					
L6556	RCILPA034WJZZ	J	Coil	AD					
L6558	RCILPA034WJZZ	J	Coil	AD					
<b>TRANSFORMERS</b>									
△ T6551	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6552	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6553	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6554	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6555	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6556	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6557	RTRNZA006WJZZQ	J	Transformer	AL					
△ T6558	RTRNZA006WJZZQ	J	Transformer	AL					
<b>CAPACITORS</b>									
C6551	RC-FZA034WJZZ	J	0.15	250V	Film	AE			
C6555	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA			
C6556	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA			
C6558	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD			
C6560	RC-FZA034WJZZ	J	0.15	250V	Film	AE			
C6563	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA			
C6564	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA			
C6566	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD			
C6567	RC-FZA034WJZZ	J	0.15	250V	Film	AE			
C6571	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA			
C6572	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA			
C6574	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD			
C6575	RC-FZA034WJZZ	J	0.15	250V	Film	AE			
C6579	VCKYCY1CB333KY	J	0.033	16V	Ceramic	AA			
C6580	VCKYCY1EB103KY	J	0.01	25V	Ceramic	AA			
C6582	RC-EZA010WJZZ	J	1000	16V	Electrolytic	AD			
<b>RESISTORS</b>									
R6551	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6552	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6553	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA			
R6554	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA			
R6555	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6556	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6557	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA			
R6558	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA			
R6559	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6560	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6561	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA			
R6562	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA			
R6563	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6564	VRS-TW2ED392JY	J	3.9k	1/4W	Metal Oxide	AA			
R6565	VRS-CY1JF822JY	J	8.2k	1/16W	Metal Oxide	AA			
R6566	VRS-CY1JF333JY	J	33k	1/16W	Metal Oxide	AA			
<b>MISCELLANEOUS PARTS</b>									
△ F6551	QFS-D0006CEZZ	J							
△ F6552	QFS-D0006CEZZ	J							
△ F6553	QFS-D0006CEZZ	J							
△ F6554	QFS-D0006CEZZ	J							
FH6551	QFSHD1002CEZZ	J							
FH6552	QFSHD1002CEZZ	J							
FH6553	QFSHD1002CEZZ	J							
FH6554	QFSHD1002CEZZ	J							
FH6555	QFSHD1002CEZZ	J							
FH6556	QFSHD1002CEZZ	J							
FH6557	QFSHD1002CEZZ	J							
FH6558	QFSHD1002CEZZ	J							
P706	QPLGNA059WJZZ	J							
P6551	QPLGN0155FJZZY	J							
P6552	QPLGN0155FJZZY	J							
P6553	QPLGN0155FJZZY	J							
P6554	QPLGN0155FJZZY	J							

## CABINET AND MECHANICAL PARTS



1	2	3	4	5	6
---	---	---	---	---	---

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>CABINET AND MECHANICAL PARTS</b>									
1	CCABAA129WJ01	J	Front Cabinet Ass'y	BM	8	QCNW-A188WJZZ	J	Connecting Cord(KK)	AF
1-1	<i>Not Available</i>	—	Front Cabinet	—	9	QCNW-A918WJZZ	J	Connecting Cord(MB)	AF
1-2	GCOVA2064CESA	J	RC/LED Cover	AF	10	QCNW-A953WJZZ	J	Connecting Cord(PF)	AG
1-3	<i>Not Available</i>	—	Badge, "SHARP"	—	11	GCOVA180WJKA	J	Chassis Frame	AR
1-4	PSPAG0393CEUZ	J	Spacer, x4	AB	12	GCOVA181WJKA	J	Chassis Frame Cover	AK
1-5	PSPAG0427CEUZ	J	Spacer, x4	AC	13	GCOVA2075CEKA	J	Terminal Cover-A	AP
1-6	PSPAG0432CEUZ	J	Spacer, x1	AA	14	GCOVA2076CEKA	J	Terminal Cover-B	AN
1-7	PSPAHO678CEZZ	J	Spacer, x2	AA	15	GCOVA2102CEKA	J	Connector Cover	AE
1-8	PSPAHO726CEUZ	J	Spacer, x2	AC	16	JBTN-2084CEKA	J	Power Button	AE
1-9	PSPAHO727CEUZ	J	Spacer, x2	AC	17	RCORFA008WJZZ	J	Ferrite Core	AH
1-10	QCNW-A185WJZZ	J	Connecting Cord	AE	18	TLABNA117WJZZ	J	Serial No. Label(LC-22SV2E)	AE
1-11	VSP0051PBP88S	J	Speaker, x2	AP	18	TLABNA139WJZZ	J	Serial No. Label(LC-22SV2K)	AC
1-12	XEBSID40P10000	J	Screw, x8	AA	19	LANGK0782CEFW	J	Fixing Metal	AF
2	CCABB2349CE03	J	Rear Cabinet Ass'y	BG	20	LANGT9054CEFW	J	Reinforcement Angle	AR
2-1	<i>Not Available</i>	—	Rear Cabinet	—	21	LX-BZ3442CEFF	J	Screw, x4	AB
2-2	HiNDPA157WJSA	J	Model Label	AG	22	PSPAKA012WJZZ	J	Spacer, x1	AC
2-3	HiNDPA158WJSA	J	Terminal Indication Label(R)	AM	23	PSPAK0044CEZZ	J	Spacer, x1	AF
2-4	HiNDPA159WJSA	J	Terminal Indication Label(L)	AH	24	PSPAK0045CEZZ	J	Spacer, x1	AF
2-5	PCOVZ1101CESA	J	Speaker Duct Cover, x2	AG	25	XBBSD40P06000	J	Screw, x4	AA
2-6	PSPAK0043CEZZ	J	Spacer, x1	AC	26	XBBSF30P05000	J	Screw, x3	AB
2-7	XEBSID30P08000	J	Screw, x8	AA	27	XBBSF30P08000	J	Screw, x2	AA
3	CDAi-1131CE01	J	Stand	BR	28	XBPSD30P10JS0	J	Screw, x8	AA
3-1	GDAi-1131CESA	J	Stand, Base	BB	29	XEBSID30P08000	J	Screw, x9	AA
3-2	GCOVA1945CESA	J	Handle Grip	AK	30	XEBSF40P16000	J	Screw, x14	AA
3-3	<i>Not Available</i>	—	Stand, Joint	—					
3-4	GDAi-3049CESA	J	Stand, Base Joint	AQ					
3-5	GDAi-3057CESA	J	Stand, Support	AQ					
3-6	GLEGG9093CEZZ	J	Foot, x6	AC					
3-7	JHNDP0103CESA	J	Carrying Handle	AX					
3-8	LX-BZ3441CEFN	J	Screw, x1	AD					
3-9	MHNG-3050CEFW	J	Swivel Hinge	AV					
3-10	PSPAZ0415CEZZ	J	Spacer, x2	AB					
3-11	XCBSD50P25000	J	Screw, x4	AB					
3-12	XCSSN50P25000	J	Screw, x4	AB					
3-13	XESSD40P14000	J	Screw, x4	AB					
3-14	XESSN40P10000	J	Screw, x8	AB					
3-15	XWHSN50-16120	J	Washer, x4	AB					
4	CCOVA177WJ01	J	Top Cover Ass'y	AQ					
4-1	<i>Not Available</i>	—	Top Cover	—					
4-2	GCOVA1943CEKA	J	Button Cover(VOL)	AD					
4-3	GCOVA1943CEKB	J	Button Cover(CH)	AD					
4-4	JBTN-2087CEKA	J	Operation Cover	AH					
4-5	XEBSID30P08000	J	Screw, x1	AA					
5	<i>Not Available</i>	—	22" LCD Panel Unit Ass'y	—					
5-1	RLCDTA011WJZZ	J	22" LCD Panel Unit	EM					
5-2	PSLDM4699CEFW	J	Back Shielding Plate	AU					
5-3	PSPAK0042CEZZ	J	Spacer, x1	AD					
5-4	PSPAZ0473CEZZ	J	Spacer, x1	AE					
△ 5-5	KLMP-0126CEZZ	J	Lamp Unit-A	BE					
△ 5-6	KLMP-0127CEZZ	J	Lamp Unit-B	BE					
5-7	LHLDZ2184CEKZ	J	Lamp Fixing Holder, x2	AN					
5-8	LHLDZ2185CEZZ	J	Lamp Clip, x4	AD					
5-9	MSPRP1220CEFW	J	ITO Earth Spring, x1	AC					
5-10	PCOVU0108CEZZ	J	Diffusion Panel	AY					
5-11	PMIR-0299CEZZ	J	Reflection Panel	AZ					
5-12	PSHEP0294CEZZ	J	Diffusion Sheet	AQ					
5-13	PSHEP0295CEZZ	J	Prism Sheet	AZ					
5-14	PSHEPA002WJZZ	J	ITO Sheet	BE					
5-15	PSHEPA003WJZZ	J	Reflection/Deflection Sheet	BR					
5-16	QCNW-A157WJZZ	J	Connecting Cord	AD					
5-17	QCNW-A158WJZZ	J	Connecting Cord	AD					
5-18	QCNW-A717WJZZ	J	Connecting Cord	AE					
5-19	XBBSD30P08000	J	Screw, x10	AA					
5-20	XEBSID20P05000	J	Screw, x6	AA					
5-21	XEBSID30P08000	J	Screw, x1	AA					
6	QCNW-A153WJZZ	J	Connecting Cord(MA, MC, ME)	AD					
7	QCNW-A187WJZZ	J	Connecting Cord(RM)	AK					

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

### SUPPLIED ACCESSORIES

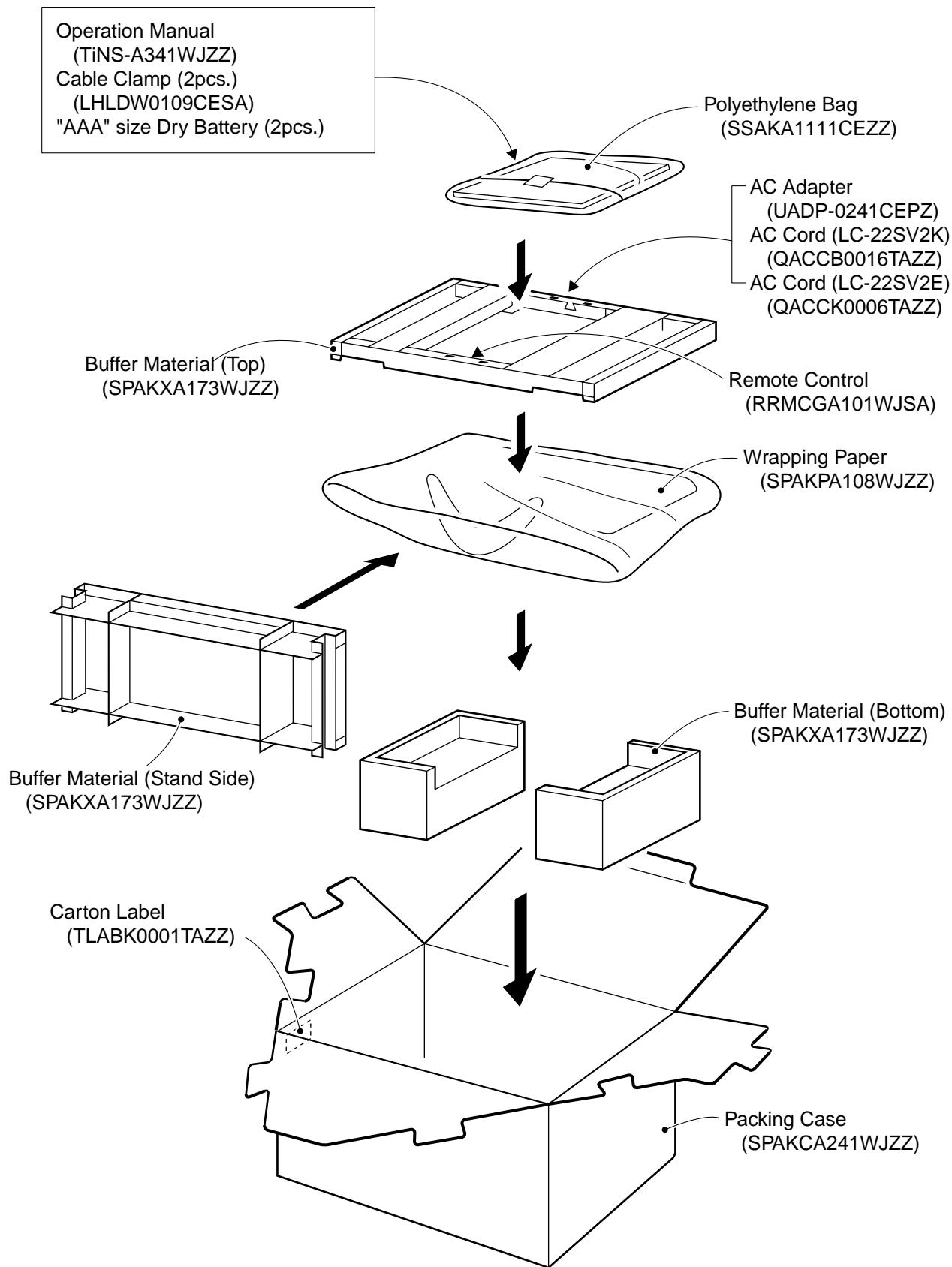
△	LHLDW0109CESA	J	Cable Clamp, x2	AD
△	QACCB0016TAZZ	J	AC Cord(LC-22SV2K)	AV
△	QACCK0006TAZZ	J	AC Cord(LC-22SV2E)	AL
	RCORFA008WJZZ	J	Ferrite Core	AH
	RRMCGA101WJSA	J	Wireless Remote Control	BN
	TCAUZA025WJZZ	J	Caution Sheet	AC
	TiNS-A341WJZZ	J	Operation Manual	AZ
△	UADP-0241CEPZ	J	AC Adapter	BL

Ref. No.	Part No.	★	Description	Code
----------	----------	---	-------------	------

### PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKCA241WJZZ	–	Packing Case	—
SPAKPA108WJZZ	–	Wrapping Paper	—
SPAKXA173WJZZ	–	Buffer Material	—
SSAKA1111CEZZ	–	Polyethylene Bag	—
TLABK0001TAZZ	–	Carton Label	—

# PACKING OF THE SET



# SHARP

**COPYRIGHT © 2002 BY SHARP CORPORATION**

**ALL RIGHTS RESERVED.**

No part of this publication may be reproduced,  
stored in a retrieval system, or transmitted in  
any form or by any means, electronic, mechanical,  
photocopying, recording, or otherwise, without  
prior written permission of the publisher.